Access DB# 3509

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Scientific and Technical Information Center

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| Mail Box and Bldg/Room Location: | | s Format Preferred (circle): P | |
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| If more than one search is submitt | | searches in order of need | ******* |
| Please provide a detailed statement of the see Include the elected species or structures, key utility of the invention. Define any terms the known. Please attach a copy of the cover she | words, synonyms, acronyr at may have a special mear | ns, and registry numbers, and comb ning. Give examples or relevant cit | oine with the concept or |
| Title of Invention: | the second second | | |
| Inventors (please provide full names): | | | |
| | | \$ ° | |
| Earliest Priority Filing Date: | | | |
| *For Sequence Searches Only* Please include | all national information (na | | t numbers) along with the |
| appropriate serial number. | au perunent injormation (pa | rent, chua, atrisionat, or issuea paten | · numbers, usong mun me |
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| STAFF USE ONLY | Type of Search | Vendors and cost when | e applicable |
| Searcher 7/8 | NA Sequence (#) | STN | r some an experiment methodological or solden makers makers— the system beginning to a space of the solden solden and the space of the solden solden and the space of the solden |
| Searcher Phone #: Y - 4139 | AA Sequence (#) | Dialog | |
| Searcher Location: 510 1700 | Structure (#) | Questel/Orbit | |
| Date Searcher Picked Up: | Bibliographic | Dr.Link | |
| Date Completed: 2-9-01 | Litigation | Lexis/Nexis | |
| Searcher Prep & Review Time: | Fulltext | Sequence Systems | |
| Clerical Prep Time: | Patent Family | WWW/Internet | |
| Online Time: 35 | Other | Other (specify) | · |

PTO-1590 (1-2000)

BEST AVAILABLE COPY

NODE ATTRIBUTES:

| HCOUNT | IS M2 | AT | 1 | | | | | |
|---------|------------|-------|--------|---|-----|---|--------------|---|
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| HCOUNT | IS M2 | AT · | 3 | | | | | |
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| NSPEC | IS C | ΑT | 2 | | | | | |
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| NSPEC | IS C | AT | 5 | | | | • | |
| NSPEC | IS C | AΤ | 6 | | | | | |
| DEFAULT | MLEVEL IS | ATOM | | | | | | |
| MLEVEL | IS CLASS | AT | 1 | 2 | 3 | 4 | 5 | 6 |
| DEFAULT | ECLEVEL IS | TITME | TED | | | | | |

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE STR

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NODE ATTRIBUTES: NSPEC IS C ΑT

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DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 2

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

| L1,7 | 32587 SEA FILE=REGISTRY SSS FUL L12 AND L15 NOT L9 |
|-------|---|
| L19 | 99761 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 |
| L20 | 47758 SEA FILE=HCAPLUS ABB=ON PLU=ON (SURFACE ACTIVE AGENTS AND |
| | DETERGENTS)/CC |
| L21 | 1888 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND L19 |
| L33** | 827 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (GLYCERID? OR |
| | TRIGLYCERID? OR GLYCEROL? OR MONOGLYCER? OR DIGLYCER?)/IT |
| L34 | 243 SEA FILE=HCAPLUS ABB=ON PLU=ON (FATTY(3A)ACID)/IT AND L33 |
| L35 | 24 SEA FILE=HCAPLUS ABB=ON PLU=ON (BATH? OR DISH? OR WASH? OR |
| | HAIR)/IT AND L34 |
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ANSWER 1 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
     2000:741057 HCAPLUS
AN
DN
     133:311153
ŤΙ
     Composition comprising a mixture of alkoxylated mono-, di- and
     triglycerides and glycerol and detergent composition therefrom
    Bermeno, Oses Maria Jose, Mundo, Blanch Miquel; Siscart, Laguna Nuria;
    Castan, Barberan Pilar; Vilaret, Ferrer Josep
PA
     Kao Corporation, S.A., Spain
so
     Eur. Pat. Appl., 14 pp.
     CODEN: EPXXDW
DT
     Patent
     English
LА
IC
     ICM C11D001-74
     46-2 (Surface Active Agents and
     Detergents)
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
                            20001018
                                          EP 1999-106233 19990413
PΙ
                      A1
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE, SI, LT, LV, FI, RO
     MARPAT 133:311153
os
     Compns. comprising a mixt. of alkoxylated mono-, di-, and triglycerides
ΑB
     and glycerin of the following formula are disclosed: R' representing H or
     CH3, and each of m, n, and 1 independently representing a no. from 0 to 4,
     the sum of m, n and 1 being in the range of from 1 to 4, each of B1, B2,
1.15
     and B3 representing H or wherein R represents an alkyl or alkenyl group
     having 6 to 22 carbon atoms.; and the wt. ratio of
     triglyceride/diglyceride/monoglyceride being 46 to 90/9 to 35/1 to 15.
     Also disclosed are methods for the prepn. of these compns. and detergent
     products comprising these compns.
ST
     ethoxylated propoxylated glyceride glycerol transesterification prepn
     detergent compn
     Fatty acids, reactions
IT
     RL: RCT (Reactant)
        (coco, Me esters; compn. comprising a mixt. of alkoxylated mono-, di-
        and triglycerides and glycerol and detergent compn.
        therefrom)
ΙT
     Glycerides, uses
     RL: IMF (Industrial manufacture); TEM (Technical or engineered material
     use); PREP (Preparation); USES (Uses)
        (coco, ethoxylated; compn. comprising a mixt. of alkoxylated mono-, di-
        and triglycerides and glycerol and detergent compn.
        therefrom)
     Fatty acids, reactions
IT
                                               , LI, III
                                                               1 327
     Glycerides, reactions
     RL: RCT (Reactant)
        (coco; compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
        therefrom)
                                                      ej tj
ΙT
                                                       . t.:
        (compn. comprising a mixt. of alkoxylated mono-, di- and
     triglycerides and glycerol and detergent compn.
        therefrom)
İΤ
     Glycerides, uses
     RL: IMF (Industrial manufacture); TEM (Technical or engineered material
     use); PREP (Preparation); USES (Uses)
        (compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
        therefrom)
IT
     Hair preparations
        (conditioners; compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
```

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therefrom)
ΙT
     Shampoos
        (conditioning; compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
        therefrom)
ΙT
     Detergents
        (dishwashing; compn. comprising a mixt. of alkoxylated mono-,
        di- and triglycerides and glycerol and detergent
        compn. therefrom)
ΙT
     Fats and Glyceridic oils, uses
     RL: IMF (Industrial manufacture); TEM (Technical or engineered material
     use); PREP (Preparation); USES (Uses)
        (ethoxylated; compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
       therefrom)
                                 and the same age than
IT
     Bath preparations
        (gels; compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
        therefrom)
ΙT
     Glycerides, uses
     RL: IMF (Industrial manufacture); TEM (Technical or engineered material
     use); PREP (Preparation); USES (Uses)
        (palm kernel-oil, ethoxylated; compn. comprising a mixt. of alkoxylated
        mono-, di- and triglycerides and glycerol and
        detergent compn. therefrom)
IT
     Fatty acids, reactions
     RL: RCT (Reactant)
        (palm-oil, Me esters; compn. comprising a mixt. of alkoxylated mono-,
        di- and triglycerides and glycerol and detergent
        compn. therefrom)
IT
     Fatty acids, reactions
     Glycerides, reactions
     RL: RCT (Reactant)
        (palm-oil; compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
        therefrom)
     25791-96-2DP, Polypropylene oxide, glycerol ether (3:1),
IT
     fatty acid esters 31694-55-0DP, fatty
     acid esters
     RL: IMF (Industrial manufacture); TEM (Technical or engineered material
     use); PREP (Preparation); USES (Uses)
        (compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
        therefrom)
IT
     56-81-5, Glycerol, uses
     RL: RCT (Reactant); TEM (Technical or engineered material use); USES
        (compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
        therefrom)
RE.CNT
RE
(1) Colgate Palmolive Co; WO 9816605 A 1998 HCAPLUS
(2) Kao Corp Sa; EP 0579887 A 1994 HCAPLUS
(3) Kao Corp Sa; EP 0586323 A 1994 HCAPLUS
     25791-96-2DP, Polypropylene oxide, glycerol ether (3:1),
     fatty acid esters 31694-55-0DP, fatty
     acid esters
     RL: IMF (Industrial manufacture); TEM (Technical or, engineered, material
     use); PREP (Preparation); USES (Uses)
        (compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and detergent compn.
        therefrom)
RN
     25791-96-2 HCAPLUS
CN
     Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''-1,2,3-
```

propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)

```
O- (C3H6)
                       CH2-CH-
     31694-55-0 HCAPLUS
RN
CN
     Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
     propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
     56-81-5, Glycerol, uses
     RL: RCT (Reactant); TEM (Technical or engineered material use); USES
     (Uses)
        (compn. comprising a mixt. of alkoxylated mono-, di- and
      triglycerides and glycerol and-detergent compness.
        therefrom)
RN
     56-81-5 HCAPLUS
     1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
        OH
                                                   1-8-1-1
HO-CH2-CH-CH2-OH
                                                   N. EX NAL
    ANSWER 2 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
     2000:389116 HCAPLUS
ΑN
DN
     133:32118
TI
     Drying and finishing agent for plastic tableware in automatic dishwashers
     Hamamichi, Yoshiko; Maruyama, Shinji
IN
PA
     T-Poll K. K.degree., Japan
SO
     Jpn. Kokai Tokkyo Koho, 19 pp
                                                   111
     CODEN: JKXXAF
DT
     Patent
LΑ
     Japanese
     ICM C11D007-60,17
IC
                                                  . I mate.
     ICS B01D012-00; C11D007-26
CC
     46-6 (Surface Active Agents and
     Detergents)
FAN.CNT 1
     PATENT NO.
                    KIND DATE
                                           APPLICATION NO.
     JP 2000160195
                       A2
                            20000613
PΙ
                                           JP 1998-333263
                                                            19981124
     The agent suppressing the formation of water spots on plastic tableware
     comprises (A) esters of polyglycerols contg. .gtoreq.50% single
     polyglycerol with degree of polymn. n (n = 3-5) and C2n-C2n+4 fatty acids
     and (B) esters of sorbitan, sorbitol and/or sorbite and C8-12 fatty acids.
     A compn. contained polyglycerol monocaprylates (triglycerol ester content
     60%) 15, sorbitan monocaprylate 15, propylene glycol 17, EtOH 30, and
     water 23 g, showing low foaming and good spot suppression.
     drying finishing agent plastic tableware dishwasher; polyglycerol
```

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caprylate drying agent tableware dishwasher

rigorial (Fig. 1)

Page 3

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IT,
     Detergents
        (dishwashing; fatty acid ester-based
       drying and finishing agent for plastic tableware in automatic
      dishwashers)
ΙT
     Drying agents
        (fatty acid ester-based drying and finishing agent
       for plastic tableware in automatic dishwashers)
IT
     Household furnishings
       (tableware; fatty acid ester-based drying and
       finishing agent for plastic tableware in automatic dishwashers
IT
     56-81-5D, Glycerol, polymers, fatty
     acid ester 1338-39-2, Sorbitan monolaurate 39438-11-4,
    Sorbitan monodecanoate 51033-28-4 51033-30-8, Triglycerol monocaprate
     60177-36-8, Sorbitan monocaprylate 123609-89-2 128738-83-0
    146599-33-9 205924-65-8' 273380-01-1 273380-02-2
     RL: TEM (Technical or engineered material use); USES (Uses)
        (fatty acid ester-based drying and finishing agent
       for plastic tableware in automatic dishwashers)
IT
     56-81-5D, Glycerol, polymers, fatty
     acid ester
    RL: TEM (Technical or engineered material use); USES (Uses)
        (fatty acid ester-based drying and finishing agent
       for plastic tableware in automatic dishwashers
     56-81-5 HCAPLUS
RN
     1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
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    ANSWER 3 OF 24 HCAPLUS COPYRIGHT 2001 ACS Charle corne
L35
     2000:43524 HCAPLUS
NΑ
DN
    Drying compositions for automatic tableware washers
TI
    Yamamoto, Nobuo
IN
                                               7 ....
    C and G K. K., Japan
PA
                                                 2 12...
    Jpn. Kokai Tokkyo Koho, 4 pp.
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    CODEN: JKXXAF
                  ., USES ...
DT
    Patent
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    Japanese
LΑ
                   tropies a
    IC
     46-4 (Surface Active Agents and
                                               ;; USEU (
                  •
    Detergents)
                                                r agent
FAN.CNT 1
    PATENT NO.
    PATENT NO. KIND DATE

JP 2000017295 A2 20000118

JP 2962476 B2 19991012

JP 2962476 B1 19991012
                                        APPLICATION NO.
51.
PΪ
                                        JP 1998-182141 19980629
    The title compns. comprise (a) 6-40% polyol fatty acid esters with HLB
AB
    3-10 (e.g., propylene glycol oleate, propylene glycol myristate, sorbitol
    oleate, sorbitol laurate, glycerol oleate), (b) 0.1-15% gluconic acid
    and/or its salts (e.g., K gluconate, Na gluconate), and (c) water,
    ethanol, propylene glycol, glycerol, and/or dipropylene glycol.
    automatic tableware washer drying compn; polyol fatty ester dishwasher
    drying compn; propylene glycol fatty ester dishwasher drying compn;
    sorbitol fatty ester dishwasher drying compn; glycerol fatty ester
    dishwasher drying compn; ethanol polyol fatty ester dishwasher drying
ΙT
    Dishwashing
       (automatic devices for; drying compns. for automatic tableware
     washers)
```

```
IT
     Drying agents
        (drying compns. for automatic tableware washers)
ΙT
     Glycols, uses
     RL: PRP (Properties); TEM (Technical or engineered material use); USES
        (drying compns. for automatic tableware washers)
IT
     Fatty acids, uses
     RL: PRP (Properties); TEM (Technical or engineered material use); USES
        (esters; drying compns. for automatic tableware washers)
IT
     Esters, uses
     RL: PRP (Properties); TEM (Technical or engineered material use); USES
        (fatty; drying compns. for automatic tableware washers)
     56-81-5, Glycerol, uses 57-55-6, Propylene glycol,
            64-17-5, Ethanol, uses 299-27-4, Potassium gluconate 526-95-4,
     Gluconic acid 527-07-1, Sodium gluconate 1330-80-9, Propylene glycol
     monooleate 25265-71-8, Dipropylene glycol 25496-72-4,
     Glycerol oleate 26402-22-2, Decanoic acid, monoester
     with 1,2,3-propanetriol 27215-38-9 29059-24-3, Propylene
     qlycol myristate 53637-07-3, Sorbitol laurate 55838-97-6, Sorbitol
             108175-14-0, D-Glucitol, decanoate
     RL: PRP (Properties); TEM (Technical or engineered material use); USES
     (Uses)
        (drying compns: for automatic tableware washers)
ΙT
     56-81-5, Glycerol, uses 25496-72-4,
     Glycerol oleate, 26402-22-2, Decanoic acid, monoester
     with 1,2,3-propanetriol 27215-38-9
     RL: PRP (Properties); TEM (Technical or engineered material use); USES
     (Uses)
        (drying compns. for automatic tableware washers)
RN
     56-81-5 HCAPLUS
CN
     1,2,3-Propanetriol (9CI) (CA INDEX NAME)
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     25496-72-4 HCAPLUS
RN
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CN
     9-Octadecenoic acid (9Z)-, monoester with 1,2,3-propanetriol (9CI)
     INDEX NAME)
                     14
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          56-81-5
     CMF
          C3 H8 O3
        OH
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HO-CH2-CH-CH2-OH
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OH
HO-CH2-CH-CH2-OH
     26402-22-2 HCAPLUS
RN
                                                                 (CA INDEX NAME)
CN
     Decanoic acid, monoester with 1,2,3-propanetriol (9CI)
     CM
     CRN
          334-48-5
          C10 H20 O2
     CMF
HO_2C-(CH_2)_8-Me
     CM
     CRN
          56-81-5
     CMF
          C3 H8 O3
        OH
HO-CH_2-CH-CH_2-OH
     The In The SE
     27215-38-9 HCAPLUS
RN
CN
     Dodecanoic acid, monoester with 1,2,3-propanetriol (9CI)
                                                                   (CA INDEX NAME)
                    monoester with 1/2, 8 ( )
                                                    + fol (901)
                                                                 ( '5 4 NDE
     CRN
          143-07-7
          C12 H24 O2
     CMF
HO_2C^- (CH<sub>2</sub>)<sub>10</sub>-Me
     CM
          2
     CRN
          56-81-5
     CMF
          C3 H8 O3
        OH
HO-CH2-CH-CH2-OH
L35
     ANSWER 4 OF 24 HCAPLUS COPYRIGHT 2001 ACS
ΑN
     1999:3449 HCAPLUS
DN
     130:68211
TI
     Mild, biodegradable alkyl polyglycoside-free surfactant compositions
     containing a hydrophobically modified polyaspartic acid derivative
IN
     Gruning, Burghard; Simpelkamp, Jorg; Weitemeyer, Christian
PA
     Th. Goldschmidt A.-G., Germany
SO
     Eur. Pat. Appl., 7 pp.
     CODEN: EPXXDW
DT
     Patent
LΑ
     German
IC
     ICM C11D003-37
```

ICS A61K007-06; A61K007-16; A61K007-48

```
Section cross-reference(s): 62
FAN.CNT 1
                                         APPLICATION NO.
     PATENT NO.
                     KIND DATE
                                                            DATE
                           -----
                     ____
PT
     EP 884380
                     · A2
                                                            19980528
                           19981216
                                          EP 1998-109729
     EP 884380
                     A3
                           19991117
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
PRAI DE 1997-19724590 19970611
    Mild surfactant compns., useful for cleaning and as cosmetics, contg.
     .gtoreq.1 hydrophobically modified polyaspartic acid deriv. exhibit better
     biodegradability than similar compds. contg. alkyl polyglycosides.
ST
   _biodegradable_surfactant_compn hydrophobic_polyaspartic acid deriv;
     cosmetic biodegradable hydrophobic polyaspartic acid deriv; detergent
     biodegradable hydrophobic polyaspartic acid deriv; alkyl polyglycoside
     replacement biodegradable surfactant compn
IT
     Detergents
        (biodegradable; mild, biodegradable alkyl polyglycoside-free surfactant
        compns. contg. a hydrophobically modified polyaspartic acid deriv. for
        detergents)
IT
    Bath preparations
        (bubble; mild) biodegradable alkyl polyglycoside-free surfactant
        compns. contg. a hydrophobically modified polyaspartic acid deriv. for
     bubble-baths had a Restment of the
ĬΤ
     Shaving preparations
     (creams; mild, biodegradable alkyl polyglycoside-free surfactant
     compns. contg. a hydrophobically modified polyaspartic acid deriv. for
      shaving creams)
                                                 Z.74 NO. 3774
IT
     Coco fatty acids
     RL: PRP (Properties); TEM (Technical or engineered material, use); USES
        (esters, with polyethylene glycol glycerol, ether; mild, E
       biodegradable alkyl polyglycoside-free surfactant compns. contg. a
       hydrophobically modified polyaspartic acid deriv.)
IT
    Amphoteric surfactants
                                                     3. 1 C
    Anionic surfactants
                               , 1 71 -- .
                                                ofs, sofd at the light
     Biodegradable materials
                                                   1 71 pou
     Cationic surfactants
                                                 24 - - Spage
     Nonionic surfactants
                                                     ac.d
     Zwitterionic surfactants
        (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
        a hydrophobically modified polyaspartic acid deriv.)
IT
        (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
        a hydrophobically modified polyaspartic acid deriv. for cosmetics)
    Dishwashing detergents
        (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
        a hydrophobically modified polyaspartic acid deriv. for
     dishwashing detergents)
     Liquid soaps
IT
     RL: MSC (Miscellaneous)
                                                     Adde-
        (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
        a hydrophobically modified polyaspartic acid deriv. for liq. soaps)
ΙŢ
        (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
       a hydrophobically modified polyaspartic acid deriv. for mouth rinses)
IT
        (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
        a hydrophobically modified polyaspartic acid deriv. for shampoos)
IT
     Shaving preparations
        (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
        a hydrophobically modified polyaspartic acid deriv. for shaving
        lotions)
IT
     Dentifrices
        (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
```

46-6 (Surface Active Agents and

Detergents)

deri.

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a hydrophobically modified polyaspartic acid deriv. for tooth paste)
ΙT
        107-43-7D, coco amidopropyl deriv.
        RL: PRP (Properties); TEM (Technical or engineered material use); USES
         (Uses)
              (cocoamidopropyl betaines; mild, biodegradable alkyl polyglycoside-free
              surfactant compns. contq. a hydrophobically modified polyaspartic acid
        31586-29-5DP, Polysuccinimide, ring-opened, decanol esters, hydrolyzed
IT
        RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or
        engineered material use); PREP (Preparation); USES (Uses)
              (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
              a hydrophobically modified polyaspartic acid deriv.)
IT
        112-80-1D, Oleic acid, esters with polyethylene glycol glycerol
        ether and coco fatty acids 9004-82-4, Sodium lauryl
        ether sulfate 31694-55-0D, Polyethylene glycol glycerol
        ether, esters with coco fatty acids 156511-15-8,
        Tego Betain F50
        RL: PRP (Properties); TEM (Technical or engineered material use); USES
         (Uses)
              (mild, biodegradable alkyl polyglycoside-free surfactant compns. contq.
              a hydrophobically modified polyaspartic acid deriv.)
        218166-41-7P
IT
        RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or
         engineered material use); PREP (Preparation); USES (Uses)
              (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
              a hydrophobically modified polyaspartic acid deriy. for lige and
        detergents) amilia
        31694-55-0D, Polyethylene glycol, glycerol ether, esters and the control of the c
IT
        with coco fatty acids
        RL: PRP (Properties); TEM (Technical or engineered material use); USES
              (mild, biodegradable alkyl polyglycoside-free surfactant compns. contg.
              a hydrophobically modified polyaspartic acid deriv.)
RN
        31694-55-0 HCAPLUS
        Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.',.alpha.',.alpha.'
CN
        propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
                                                                                       : Reily.
                          о- ch<sub>2</sub>- ch<sub>2</sub>- он п ми
                                                                                         i decay
                                                                                           (a); i.e. .. .ai.
        ANSWER 5 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
                                                                                        " ES (Us)
        1999:3426 HCAPLUS
ΑN
DN
        Mild surfactant compositions with copolymeric polyaspartic acid
ΤI
        derivatives for cosmetics or cleaning
        Gruning, Burghard; Rau, Harald; Simpelkamp, Jorg; Weitemeyer, Christian
IN
PA
        Th. Goldschmidt, A.-G., Germany
                                                                                           and metallic conse
so
        Eur. Pat. Appl., 14 pp.
        CODEN: EPXXDW
                                                                                           -n_0
DT
        Patent
LΑ
        German
        ICM C08G073-10,
TC.
        ICS C11D003-37; A61K007-06; A61K007-16; A61K007-48<sub>NAS</sub>
        46-6 (Surface Active Agents and
        Detergents)
        Section cross-reference(s): 62
FAN.CNT 1
                                                                          APPLICATION NO. DATE
        PATENT NO.
                                     KIND DATE
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EP 884344
                                                              19981216
                                                                                               EP 1998-109730
                                                                                                                                     19980528
           EP 884344.
                                                  А3
                                                              19991117
                           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                            IE, SI, LT, LV, FI, RO
PRAI DE 1997-19724589 19970611
           The compns. comprise an essentially linear aspartic acid copolymer and
           .qtoreq.1 surfactant, or .qtoreq.2 surfactants if .qtoreq.1 of them is
           anionic. The aspartic acid copolymers are derived from .gtoreq.1
           .alpha.,.beta.-unsatd. dicarboxylic acid (esp. maleic acid) monoester and
           NH3 or the salt thereof. Thus, heating a 1:3 mixt. of monodecyl maleate
           and monoethyl maleate with NH3 in iso-BuCOMe for 4-6 h at 120-140.degree.
           under reduced pressure gave an aspartic acid copolymer in which 70% of the
           units were free acid, 20% the decyl ester, and 5% the Et ester.
           Formulations incorporating this and similar copolymers are given for liq.
           soap, soap bars, toothpaste, etc.
          polyaspartic acid ester surfactant formulation
ST
IT
           Ethoxylated hydrogenated castor oil
           RL: TEM (Technical or engineered material use); USES (Uses)
                  (Tagat R 40; mild surfactant compns. for cosmetics or cleaning contg.
                 poly(aspartic acid) esters and)
IT
           Glycerides, uses
           RL: TEM (Technical or engineered material use); USES (Uses)
                  (coco, ethoxylated, Tegosoft GC; mild surfactant compns. for cosmetics
                or cleaning contg. poly(aspartic acid) esters and)
                                                                                                                                      The property of the first of the first
IT
           Coco fatty acids
           RL: TEM (Technical nor engineered material use); USES (Uses) 🖓 28
           (esters with sugrose, Tegosoft LSE 65K; mild surfactant compns. for
                  cosmetics or cleaning contg. poly(aspartic acid) esters and)
           Dentifrices · y-
ΙT
          Dishwashing detergents
7174
          Mouthwashes (x_{i_1}, x_{i_2}, \dots, x_{i_{m+1}}, \dots, x_{i_{m+1}}, \dots, x_{i_{m+1}})
                                                                                                                                             , ...У
                                                                                                           program englis
           Shampoos
                                 Strong Ctant, ... the equilibrium significant and some significant and some some significant and some some significant and some some significant and some si
                                                                                                           out if green lister wis
           Surfactants
                  factants that it is the fact of the fact o
                 acid) esters) ine.
                                                                        and, in the state of a salety, street
IT
           5303-24-2, Octyl laurate
           RL: TEM (Technical or engineered material use); USES (Uses)
                  (Tegosoft OL; mild surfactant compns. for cosmetics or cleaning contg.
                  poly(aspartic acid) esters and)
           217961-69-8P, Poly(aspartic acid) decyl ethyl ester 217961-78-9P,
ΙT
           Poly(aspartic acid) dodecyl ethyl ester 217961-84-7P, Poly(aspartic
           acid) cetyl ethyl ester. 217961-88-1P, Poly(aspartic acid) ethyl stearyl
           RL: IMF (Industrial manufacture); TEM (Technical or engineered material
           use); PREP (Preparation); USES (Uses)
                  (mild surfactant compns. for cosmetics or cleaning)
           8043-29-6, Tegin M 9004-82-4, Texapon N 28 9005-364-5, G 4280

51852-65-4, Tagat S 58450-52-5 68822-59-3, Elfan ÓS 46

156511-15-8, TEGO Betain F 50, 172521-05-0, Datamuls 43 178463-54-2, Tego Glucosid 810 178463-55-3, TEGO Glucosid 1216 188735-42-4, Tego
IT
                                                                                                                                              178463-54-2,
           Betain CKD 200217-18-1, Antil 171 218433-36-4, Antil HS 60
           218433-43-3, Tego Pearl N 100 2218433-55-7, Tego Glycinat 818
           RL: TEM (Technical or engineered material use); USES (Uses)
                  (mild surfactant compns. for cosmetics or cleaning contg. poly(aspartic
                  acid) esters and).
           217958-17-3P, Monodecyl maleate-monoethyl maleate-ammonia copolymer
IT
           217958-20-8P, Monododecyl maleate-monoethyl maleate-ammonia copolymer
           217958-22-0P, Monocetyl maleate-monoethyl maleate-ammonia copolymer
           217958-24-2P, Monoethyl maleate-monostearyl maleate-ammonia copolymer
           RL: IMF (Industrial manufacture); TEM (Technical or engineered material
           use); PREP (Preparation); USES (Uses)
                  (of poly(aspartic acid) structure; mild surfactant compns. for
                  cosmetics or cleaning)
           51852-65-4, Tagat S
IT
           RL: TEM (Technical or engineered material use); USES (Uses)
                  (mild surfactant compns. for cosmetics or cleaning contg. poly(aspartic
                  acid) esters and)
                                                                                                                                                            · (* ** ',
                                                                                                                      artie
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-CH_2-CH-CH_2-O-C-(CH_2)_{16}-Me
    ANSWER 6 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
AN
     1998:450745 HCAPLUS
DN
     129:190779
     Mild detergent compositions containing amide ether carboxylic acid salts
ŤΪ
     and glyceride alkoxylates
     Shoji, Kenso; Ide, Kazutoshi
IN
PA
     Kao Corp., Japan
     Jpn. Kokai Tokkyo Koho, 10 pp.
so
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
IC
     ICM C11D001-06 \
     ICS C11D001-7227 C11D003-20
CC
     46-6 (Surface Active Agents and
PATENT NO. KIND DATE APPLICATION NO.
                                      APPLICATION NO.
PΙ
     JP 10183168
                     A2 19980714
                                         JP 1996-349860 19961227
    The title compns. contain (A) amide ether carboxylic acid salts
AΒ
     RC(:0)NA(EO)n(PO)mCH2CO2M [I; R = C5-21 alkyl, alkenyl; n + m = 1-20; m, n
     = 0-20; EO = oxyethylene; PO = oxypropylene; A = (EO)k(PO)jCH2CO2M,
     (EO) k(PO) jH, H, C1-3 alkyl; k + j = 1-20; k, j = 0-20; M = alkali metal,
     alk. earth metal, amine, alkanolamine], (B) amide ethers
    RC(:O)NB(EO)n(PO)mH [II; B = (EO)k(PO)jH, H, C1-3 alkyl], and (C)
     glyceride alkoxylates, [CH2O(AO)mX1][CHO(AO)nX2][CH2O(AO)pX3] [III; X1-X3 =
     C(:0)R1, H; R1 = C7-21 alkyl, alkenyl; A = C2-4 alkylene; av. mol. no. of
     alkylene oxide 0-10], where the content of III (X1 = X2 = X3 = H) is 0-4%,
     III (1 of X1-X3 .noteq. H) 0-40%, III (2 of X1-X3 .noteq. H) 0-40%, and
     III (3 of X1-X3 .noteq. H) .gtoreq.50%, at wt. ratio A/B 0.1-100 and C
     content 0.01-40%. Thus, a compn. contg. I (R = C11H23, n = 2, m = 0, A = 0
    H, M = Na), II (R = C11H23, n = 1, m = 0, B = H), and a glyceride
     alkoxylate obtained from soybean oil and ethylene oxide showed high
    detergency and foamability and was mild to skin.
st
    detergent amide ether carboxylate salt; glyceride alkoxylate dishwashing
    detergent; soybean ethoxylated dishwashing detergent
IT
     Glycerides, uses
     RL: MOA (Modifier or additive use); USES (Uses)
     (alkoxylates; mild detergents contg. polyoxyalkyleneamide carboxylic
       acid salts and glyceride alkoxylates)
     Polyoxyalkylenes, uses
    RL: TEM (Technical or engineered material use); USES (Uses)
        (amides, carboxylic acid salts; mild detergents contq.
       polyoxyalkyleneamide carboxylic acid salts and glyceride 17
       alkoxylates)
                                                 ···ylic
IT
    Detergents
                                                    ik. n. :
    Dishwashing detergents
        (mild detergents contg. polyoxyalkyleneamide carboxylic acid salts and
     glyceride alkoxylates)
                                                 . .- eti.
     Polyoxyalkylenes, uses
IT
                                                    3 311
    RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP
     (Preparation); USES (Uses)
        (reaction products with soya glyceride; mild detergents ....
       contg. polyoxyalkyleneamide carboxylic acid salts and glyceride
       alkoxylates)
                                                            1 100 412
                                                   istic +
                                                    ClaH
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Timothy Saunders EIC-LAW Lib: 51 308-4139

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Ten di

Page 10

RN

CN

51852-65-4 HCAPLUS

Poly(oxy-1,2-ethanediyl), .alpha.-[2-hydroxy-3-[(1-

oxooctadecyl)oxy]propyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)

IT, Glycerides, uses RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses) (soya, ethoxylated; mild detergents contq. polyoxyalkyleneamide carboxylic acid salts and glyceride alkoxylates) 25322-68-3DP, reaction products with soya glyceride TΨ **31694-55-ODP**, Ethoxylated glycerin, reaction products with soybean oil fatty acid ester RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses) (mild detergents contg. polyoxyalkyleneamide carboxylic acid salts and glyceride alkoxylates) 142-78-9 32993-46-7 60828-88-8 IT 112409-52-6 174303-62-9 174303-64-1 179471-61-5 208393-48-0 211638-43-6 RL: TEM (Technical or engineered material use); USES (Uses) (mild detergents contg. polyoxyalkyleneamide carboxylic acid salts and glyceride alkoxylates). IT 31694-55-0DP, Ethoxylated glycerin, reaction products with soybean oil fatty acid ester RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses) (mild detergents contg. polyoxyalkyleneamide carboxylic acid salts and glyceride alkoxylates) RN 31694-55-0 HCAPLUS Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.'.2,3-CN propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME) A Product that posture acque); MY-The second add a point. more than the state of the - o- сн₂- сн₂-OH.

L35 ANSWER 7 OF 24 HCAPLUS COPYRIGHT 2001 ACS

AN 1998:379211 HCAPLUS

DN

ΤI Manufacture of alkoxylated amides and their use in washing and cleaning products and toiletries

IN Oftring, Alfred; Oetter, Guenter; Baur, Richard; Borzyk, Oliver; Burkhart, Bernd; Ott, Christian; Aus dem Kahmen, Martin

PA BASF A.-G., Germany

SO Ger. Offen., 16 pp.

CODEN: GWXXBX

DT Patent

LΑ German

ICM C07C233-18 IC

ICS C07C231-14; C11D001-72; A61K007-00; A61K007-50; A61K007-075; C08G065-26; B01F017-42

CC 46-3 (Surface Active Agents and Detergents)

FAN.CNT 2

PATENT NO. KIND DATE APPLICATION NO. -----____ -----_____ PI DE 19650151 A119980604 DE 1996-19650151 19961203 WO 9824758 **A2** 19980611 WO 1997-EP6750 WO 9824758 **A**3 19980820 W: BR, CN, ID, JP, KR, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE EP 946498 . A2 19991006 EP 1997-952862 19971202 R: DE, FR, GB, IT US 6034257 20000307 US 1999-308669 19990603 Α PRAI DE 1996-19650107 19961203 11 5.0

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DE 1996-19650151 19961203
       WO 1997-EP6750
                             19971202
os
       MARPAT 129:55769
AB
       R1CONR2CHR3CHR4O(CHR5CHR6O)nH [R1 = C5-25 alk(en)yl; R2 = H, C1-20
       (O-interrupted) alkyl; R3-R6 = H; R3 .noteq. R4 = Me; R5 .noteq. R6 = Me],
       useful as nonionic surfactants or emulsifiers, are manufd. by (1) reacting
       glycerides with (ethanol)amines, (2) acidifying the mixts. with aq. acids
       and sepg. the glycerin-contg. aq. phase from fatty amide-contg. org.
       phase, and (3) ethoxylating and/or propoxylating and/or butoxylating the
       fatty amides. For example, a mixt. of 348.9 g MeNHCH2CH2OH and 27.0 g
       NaOMe (30% in MeOH) was treated over 80 min at 80.degree. with 1305.0 g
       rapeseed oil, the mixt. was stirred for 15 min, dild. with 1000 mL H2O,
       heating was discontinued and the whole acidified with HCl to pH 3-4 and
       the phases sepd. The org. phase was washed twice with 750 mL H2O and
       dewatered by distn. in vacuo to give rapeseed oil N-methylethanolamide as
       a viscous, brown oil. This (426.5 g) was combined with 9.0 g NaOMe, dried
       for 2 h at 120.degree./16 mbar and ethoxylated at that temp. with 132.0 g
       ethylene oxide (EO) (max pressure 3.5 bar), cooled to 80.degree. and
       evacuated to give viscous, brown oil free from EO, having OH no. 95 mg
       KOH/g and contg. 3.3% polyethylene glycol.
ST
       glycerin sepn fatty amide manuf; glyceride amidation glycerol sepn fatty
       amide; rapeseed oil amidation methylethanolamine glycerol sepn;
       ethoxylation rapeseed oil N methylethanolamide
ΙŢ
       Detergents
           (cleaning agents; manuf. of ethoxylated amides for use in)
IT
       Polyoxyalkylenes, preparation
       RL: IMF (Industrial manufacture); PREP (Preparation)
         ··· (ethers with fatty amides; manuf. of ethoxylated amides and their use
          Coco amides Me, RL: IMF (Industrial manufacture); PREP (Preparation)
IT
                                                                      ration)
           (ethoxylated; manuf. of ethoxylated amides as surfactants and their use
           in washing and cleaning products and toiletries and toiletries
TΤ
       Polyoxyalkylenes, preparation
       RL: IMF (Industrial manufacture); PREP (Preparation)
           (fatty amido group-terminated, rapeseed-oil, ethoxylated; manuf. of
           ethoxylated amides, and their use in washing and cleaning 190
           products and toiletries)
      Amides, preparation
IT
                                                                                                      -]
       RL: IMF (Industrial manufacture); PREP (Preparation)
           (fatty, alkoxylated, rapeseed-oil, ethoxylated, manuf. of ethoxylated
           amides and their use in washing and cleaning products and _{
m W1}
           toiletries) (F.)) (F.)
                                                                     moded to sometimes.
       Skin cleansers ve v
IT
           n gleansers \chi_{i\in [n]} . The state of the second constant i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i , i ,
           cleaning products and toiletries)
                                                                      : Astion (1 - 2 1 s
ΙT
       Emulsifying agents
           (manuf. of ethoxylated amides and their use in washing and
           cleaning products and toiletries as)
      Nonionic surfactants
IT
           (manuf. of ethoxylated amides as surfactants and their use in
        washing and cleaning products and toiletries)
ΙT
       Glycerides, processes
       RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC
           (manuf. of ethoxylated amides by aminolysis of glycerides and
           sepn. of)
                          1. J. .
                                                                           STATE
IT
       Lubricants
           (manuf. of ethoxylated amides for use as)
IT
       Laundry detergents.
                                                                          10.1)
           (manuf. of ethoxylated amides for use in)
                                                                                            .05.
IT
       124-41-4, Sodium methoxide
                                                                      , wa cla
       RL: CAT (Catalyst use); USES (Uses)
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(amidation and ethoxylation catalyst; manuf. of ethoxylated amides and

their use in washing and cleaning products and toiletries)

acids, ethoxylated 109-83-1DP, N-Methylethanolamine, amides with

74-89-5DP, Methylamine, amides with rapeseed oil fatty

j.-- .

+]

IT

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N-Butylethanolamine, amides with coconut oil fatty acids
       ethoxylated 25322-68-3DP, Polyethylene glycol, ethers with fatty
     amides
     RL: IMF (Industrial manufacture); PREP (Preparation)
        (manuf. of ethoxylated amides and their use in washing and
        cleaning products and toiletries)
IT
     56-81-5, Glycerol, processes
     RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical
     process); FORM (Formation, nonpreparative); PROC (Process)
        (manuf. of ethoxylated amides by aminolysis of glycerides and
        sepn. of)
IT
     56-81-5, Glycerol, processes
     RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical
     process); FORM (Formation, nonpreparative); PROC (Process)
        (manuf. of ethoxylated amides by aminolysis of glycerides and
        sepn. of)
     56-81-5 HCAPLUS
RN
     1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
        OH
-HO=GH_2=GH=CH_2=OH_{--}
          ា សាក្សា កិត្ឌមិស្ត្រ គ្នាទៅសាស ភាពព្រះសូរ៉ាប់ជាទីធំ បាន បានក៏ការដែរដៃស្គ្
     ANSWER 8 OF 24 HCAPLUS COPYRIGHT 2001 ACS 1, they active
L35
     1997:443360 HCAPLUS
AN
     127:67720 .... Ele
DN
     Liquid dishwashing detergents with good detergency in hard water
ΤI
     Brumbaugh, Ernest H.
IN
PA
     Amway Corporation, USA
so
     PCT Int. Appl., 18 pp.
     CODEN: PIXXD2
                                                       Pro
DT
     Patent
LΑ
     English
IC
     ICM C11D
CC
     46-6 (Surface Active Agents and
                                                     · eng.
                    There is a second
     Detergents)
                                                  R (Pro -
FAN.CNT 1
                                           APPLICATION NO.
                      KIND DATE
     PATENT NO.
     WO 9718284
                                           WO 1996-US18286 19961112
                    A2 19970522
                      A3 19970619
     WO 9718284
         W: AU, BR, CA, CN, JP, KR, MX
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     AU 9677331
                      A1
                            19970605
                                           AU 1996-77331
                                                            19961112
     AU 705326
                       B2
                            19990520
     CN 1207760
                                           CN 1996-199580
                      Α
                            19990210
                                                            19961112
     EP 906388
                       A2
                            19990407
                                           EP 1996-940452
                                                            19961112
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
     BR 9612494
                            19991123
                                           BR 1996-12494
                                                             19961112
     JP 2000502118
                       T2
                            20000222
                                           JP 1997-519078
                                                            19961112
                     , A,
                                           US 1997-976900,
     US 5998355
                            19991207
                                                            19971124
                    , 19951116
PRAI US 1995-559552
     WO 1996-US18286 ... 19961112
OS
     MARPAT 127:67720
AB
     The title detergents are prepd. that exhibit increased viscosity, better
     dissoln. rate and surprisingly improved cleaning performance in hard
     water, comprising from about 1-90% of an anionic surfactant and from about
     1-30% of a solvent hydrotrope selected from the group consisting of
     alkoxylated glycerides, alkoxylated glycerines, esters of alkoxylated
     glycerines, alkoxylated fatty acids, esters of glycerin, polyglycerol
     esters and combinations thereof.
     liq dishwashing detergent hard water tolerance; anionic surfactant
ST
```

111-75-1DP,

rapeseed oil fatty acids, ethoxylated

, tr

37, 21.

```
dishwashing detergent; alkoxylated glycerin dishwashing detergent;
glyceride alkoxylated dishwashing detergent; fatty acid alkoxylated
dishwashing detergent; polyglycerol ester dishwashing detergent;
hydrotrope solvent dishwashing detergent; viscosity improvement
dishwashing detergent
Fatty acids, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
   (alkoxylated; liq. dishwashing detergents with good
   detergency in hard water)
Glycerides, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
   (alkoxylates for hydrotropes/solvents; liq. dishwashing
  detergents with good detergency in hard water)
Coco fatty acids
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
   (hydrotropes from alkoxylated esters; liq. dishwashing
   detergents with good detergency in hard water)
Esters, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
   (hydrotropes from alkoxylated glycerol- or glyceride
   -based; liq. dishwashing detergents with good detergency in
hard water) erdett;
Polyoxyalkýlenes, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
  (hydrotropes/solvents; liq. dishwashing detergents with good
   detergency in hard water)
Dishwashing detergents
Hydrotropes
Solvents
   (liq. dishwashing detergents with good detergency in hard
107-41-5, Hexylene glycol 7360-38-5, Glycerol
tris(2-ethyl hexanoate) 9004-81-3, Polyethylene glycol laurate
                                25322-69-4, Polypropylene glycol
9007-48-1, Polyglyceryl oleate
31694-55-0, Glycereth 26 31694-55-0D, Polyethylene
glycol glyceryl ether, cocoate 83138-62-9, Polyglycerol
isostearate 191278-56-5 191358-52-8, Polyethylene
glycol glycerol laurate oleate
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
   (hydrotropes/solvents; liq. dishwashing detergents with good
   detergency in hard water)
7360-38-5, Glycerol tris(2-ethyl hexanoate)
9007-48-1, Polyglyceryl oleate 31694-55-0, Glycereth 26
31694-55-0D, Polyethylene glycol glyceryl ether, cocoate
83138-62-9, Polyglycerol isostearate 191278-56-5
191358-52-8, Polyethylene glycol glycerol laurate oleate
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
   (hydrotropes/solvents; liq. dishwashing detergents with good
   detergency in hard water)
7360-38-5 HCAPLUS
Hexanoic acid, 2-ethyl-, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)
           O Et
   CH2-O-C-CH-Bu-n
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RN

CN

RN 9007-48-1 HCAPLUS

CN 1,2,3-Propanetriol, homopolymer, (9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1 CMF C18 H34 O2 CDES 2:Z

Double bond geometry as shown.

HO₂C (CH₂) 7 Z (CH₂) 7

CM 2

CRN 25618-55-7

CMF - (C3 H8 O3) x - 44

CCI PMS

CM 3

CRN 56-81-5 CMF C3 H8 O3

Bu B

 $\begin{array}{c} \text{ oh } \\ | \\ \text{ ho- ch}_2\text{-- ch-- ch}_2\text{-- oh } \end{array}$

RN 31694-55-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.',.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)

 CH_2 $O-CH_2-CH_2$ $O-CH_2$ RN 31694-55-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)

$$ch_2$$
 $-ch_2$ $-ch_$

RN 83138-62-9 HCAPLUS

CN 1,2,3-Propanetriol, homopolymer, isooctadecanoate (9CI) (CA INDEX NAME)

CM 1

CRN 30399-84-9 CMF C18 H36 O2 CCI IDS CDES 8:ID,ISO

0 || HO-C-(C₁₇H₃₅-iso)

CM

CRN 25618-55-7 CMF (C3 H8 O3)x. CCI PMS

CM 3

CRN 56-81-5 CMF C3 H8 O3

OH $\begin{array}{c|c} & \text{OH} \\ & & \text{OH} \end{array}$ HO— CH2—CH—CH2+OH $\begin{array}{c} \\ \end{array}$

RN 191278-56-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3propanetriyltris[.omega.-[(1-oxooctyl)oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

$$Me = (CH_2)_6 - C - O - CH_2 - CH_2 - O - D - CH_2$$

$$Me = (CH_2)_6 - C - O - CH_2 - CH_2 - O - D - CH_2 -$$

$$-CH_2$$
 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0 $||$ 0

RN 191358-52-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3propanetriyltris[.omega.-hydroxy-, dodecanoate (9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 31694-55-0

CMF (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C3 H8 O3

CCI PMS

$$CH_2$$
 $O-CH_2-CH_2$ $O-CH_2$ O

CM 2

CRN 143-07-7

HO₂C- (CH₂)₁₀-Me

CM 3

CRN 112-80-1 CMF C18 H34 O2

CDES 2:Z

Double bond geometry as shown.

L35 ANSWER 9 OF 24 HCAPLUS COPYRIGHT 2001 ACS

AN 1996:707958 HCAPLUS

DN 125:332359

TI Low-viscosity aqueous dispersion concentrates of opacifiers

IN Baumoeller, Guido; Wadle, Armin; Ansmann, Achim; Tesmann, Holger; Foerster, Thomas

PA Henkel KGaA, Germany

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

DT 'Patent

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IC
     ICM B01F017-00
         B01F017-56; B01F017-34; B01F017-22; C11D001-66; C11D003-20;
     ICS
          C11D003-18; A61K007-075; A61K007-50
    B01F017-02; B01F017-12; B01F017-08; B01F017-04; B01F017-10; B01F017-42;
ICA
     B01F017-28; B01F017-30; B01F017-14; B01F017-18; C07C069-22
CC
     46-4 (Surface Active Agents and
     Detergents)
     Section cross-reference(s): 45, 62
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
                                                            DATE
                     ____
                          -----
                                           -----
                   A1
                            19961002
                                           DE 1995-19511572 19950329
ÞΙ
     DE 19511572
     DE 19511572
                     C2
                            19980226
    WO 9630476 A1 19961003 W: JP, US
                                           WO_1996-EP1197
                                                            19960320
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                      A1
                            19980114
                                         EP 1996-908084
                                                           19960320
     EP 817826
     EP 817826
                       B1
                            20000524
        R: DE, ES, FR, GB, IT, FI
     JP 11502879
                     T2
                            19990309
                                           JP 1996-528883
                                                            19960320
     ES 2147922
                       Т3
                                          ES 1996-908084
                                                            19960320
                            20001001
                                          US 1997-930570
     US 5888487
                      Α
                            19990330
                                                            19971031
PRAI DE 1995-19511572 19950329
WO 1996-EP1197 19960320
os
    MARPAT 125:332359
AB
     Wax-based title concs. with solids content 40-60%, useful for dishwashing
     detergents and shampoos, contain emulsifiers based on .gtoreq.1
     hydrophilic nonionic surfactant with HLB value >10 and .gtoreq.1
     hydrophobic nonionic surfactant with HLB value <10.
ST
     wax based opacifier conc nonionic emulsifier; shampoo opacifier conc low
     viscosity; dishwashing detergent opacifier conc low viscosity; aq
     dispersion conc wax based opacifier
IT
     Glycerides, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
200
     (hardened, opacifiers; low-viscosity opacifier aq. dispersion concs.
        contg. nonionic emulsifiers for dishwashing detergents and
        shampoos)
IT
     Opacifiers.
        (low-viscosity opacifier aq. dispersion concs. contq. nonionic
        emulsifiers for dishwashing detergents and shampoos)
IT
     Paraffin waxes and Hydrocarbon waxes, uses
     Waxes and Waxy substances
     RL: TEM (Technical: or engineered material use); USES (Uses)
        (opacifiers; low-viscosity opacifier ag. dispersion concs. contg.
        nonionic emulsifiers for dishwashing detergents and shampoos)
IT
     Alcohols, uses
     RL: TEM (Technical, or engineered material use); USES (Uses)
        (C16-18, opacifiers; low-viscosity opacifier ag. dispersion concs.
        contg. nonionic emulsifiers for dishwashing detergents and
        shampoos)
ΙT
    Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (esters, with glycols, opacifiers; low-viscosity opacifier aq.
        dispersion concs. contg. nonionic emulsifiers for dishwashing
        detergents and shampoos)
IT
     Glycerides, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (mono-, opacifiers; low-viscosity opacifier aq. dispersion concs.
        contg. nonionic emulsifiers for dishwashing detergents and
        shampoos)
                       Add to the first of the water to be
                                                     C GQ.
IT
     Emulsifying agents
                                                     atom-
        (nonionic, low-viscosity opacifier aq. dispersion concs. contq.
        nonionic emulsifiers for dishwashing detergents and shampoos)
IT
     627-83-8, Ethylene glycol distearate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (Cutina K 2-2747, opacifier; low-viscosity opacifier aq. dispersion
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concs. contg. nonionic emulsifiers for dishwashing detergents
                 and shampoos)
  IT
                                                               183023-68-9, Plantaren APG 1200
            27215-38-9, Monomuls 90L12
            RL: NUU (Nonbiological use, unclassified); USES (Uses)
                  (emulsifier; low-viscosity opacifier aq. dispersion concs. contg.
                 nonionic emulsifiers for dishwashing detergents and shampoos)
  IT
            25322-68-3D, C16-18 fatty acid esters
            RL: TEM (Technical or engineered material use); USES (Uses)
                  (opacifiers; low-viscosity opacifier aq. dispersion concs. contg.
                 nonionic emulsifiers for dishwashing detergents and shampoos)
  IT
            27215-38-9, Monomuls 90L12
            RL: NUU (Nonbiological use, unclassified); USES (Uses)
                 (emulsifier; low-viscosity opacifier aq. dispersion concs. contq.
                 nonionic emulsifiers for dishwashing detergents and shampoos)
            27215-38-9 HCAPLUS
  RN
           Dodecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)
  CN
            CM
                     143-07-7
            CRN
                     C12 H24 O2
            CMF
-HO<sub>2</sub>G= (CH<sub>2</sub>)10=Me ---
                                                               0.5311125
            CM
                                       . .1 .
            CRN 56-81-5
                                                     CMF C3 H8 O3
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                 Latinia sa ta arriva
  HO-CH_2-CH-CH_2-OH
                  The Congress of Edigar Congress
                       The equation because of the consequence of the cons
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           ANSWER 10 OF 24 HCAPLUS COPYRIGHT 2001 ACS
  L35
  ΑN
            1996:681962 HCAPLUS
  DN
           125:332409
  ΤI
           Microemulsion all-purpose liquid cleaning compositions
           Thomas, Barbara; Adamy, Steven; Broze, Guy; Mehreteab, Ammanuel; Bala,
            Frank, Jr.; Mondin, Myriam; Loth, Myriam
  PA
            Colgate-Palmolive Co., USA
  so
           U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 192,902, abandoned.
            CODEN: USXXAM
  DT
            Patent
  LΑ
           English
  IC
            ICM C11D001-722
            ICS C11D001-83
  NCL
            510365000
            46-6 (Surface Active Agents and
           Detergents)
  FAN.CNT 4
            PATENT NO.
                                           KIND DATE
                                                                                   APPLICATION NO.
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                                           ----
                                                     ______
                                                                                   -----
           US 5571459
  PΙ
                                            Α
                                                       19961105
                                                                                   US 1994-350576
                                                                                                                   19941207
           AU 9511489
                                           A1
                                                       19950817
                                                                                   AU 1995-11489
                                          B2
           AU 680076
                                                       19970717
           CA 2141926
                                          AA
                                                                                   CA 1995-2141926 19950206
                                                       19950808
           EP 668346
                                           A1
                                                     19950823
                                                                                   EP 1995-300717 19950206
                   R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE
           BR 9500451
                                             A
                                                       19950926
                                                                                   BR 1995-451
                                                                                                                  19950206
           PL 179655
                                             В1
                                                       20001031
                                                                                   PL 1995-307113
                                                                                                                   19950206
           HU 70071
                                           A2
                                                       19950928
                                                                                   HU 1995-372
                                                                                                                   19950207
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19961001
                                            US 1995-515785
     US 5561106
                       A
                                                              19950816
PRAI US 1994-192902
                       19940207
     US 1994-203125
                       19940228
     US 1994-350576
                       19941207
     US 1995-384310
                       19950206
AB
     The microemulsion compns. which are more friendly to the environment
     contain an anionic sulfate surfactant, an esterified polyethoxy ether
     surfactant, a co-surfactant, at least one hydrocarbon, and water, which
     can comprise the use of a water-insol. odoriferous perfume as the
     essential hydrocarbon in a proportion sufficient to form a dil. oil in
     water microemulsion compn. The compns. preferably contain 0.1-8\% of an anionic sulfate surfactant, 1-50\% of a co-surfactant, 1-20\% of an
     ethoxylated glycerol type compd., 0.4-20% of perfume and the balance being
     water. A compn. contained Levenol V501/2 2.4, Mg laurylsulfate 3.6,
     ethylene glycol monohexyl ether 3.0, dodecane 1.0, and deionized water
     being the balance.
     microemulsion all purpose cleaning compn; anionic sulfate surfactant
ST
     cleaning compn
ΙT
     Tiles
        (Formica, greasy; microemulsion all-purpose lig. cleaning compns.)
IT
     Stains
        (bath; microemulsion all-purpose liq. cleaning compns.)
IT
     Perfumes
        (microemulsion all-purpose liq. cleaning compns.
IT
     Grease
     (removal of; microemulsion all-purpose liq. cleaning compns.)
IT
     Surfactants 👵
       (anionic, sulfates; microemulsion all-purpose liq. cleaning compns.)
IT
     Detergents_
       (cleaning compns., microemulsion all-purpose liq. cleaning compns.)
IT
     Emulsions
        (micro-, microemulsion all-purpose liq. cleaning compns.)
IT
     Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
       (tallow, esters with polyethylene glycol ether with glycerol
       (3:1), microemulsion all-purpose liq. cleaning compns.)
IT
     112-25-4, Ethylene glycol monohexyl ether 112-40-3, Dodecane
     3097-08-3, Magnesium laurylsulfate 7732-18-5, Water, uses
     31694-55-0
     RL: TEM (Technical or engineered material use); USES (Uses)
        (microemulsion all-purpose liq. cleaning compns.)
IT
     31694-55-0
     RL: TEM (Technical or engineered material use); USES (Uses)
        (microemulsion all-purpose liq. cleaning compns.)
RN
     31694-55-0 HCAPLUS
     Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.,.alpha.,.alpha.
CN
     propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
                                                       11.4 C
                                                       18.31
L35
     ANSWER 11 OF 24 HCAPLUS
                               COPYRIGHT 2001 ACS
                                                       2 1,3 .
ΑN
     1996:225984 HCAPLUS
                                                     rung och
DN
     124:346614
                                                       -40 - 3.
     Dishwashing detergent compositions useful for food
ΤI
ΙN
     Isobe, Kenji; Ogawa, Tooru; Mori, Terutaka
PΑ
     Lion Corp, Japan
                                                     . USES .
SO
     Jpn. Kokai Tokkyo Koho, 12 pp.
                                                     ns.)
     CODEN: JKXXAF
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EX No

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LA
     Japanese
IC
     ICM C11D001-68
          C11D003-06; C11D003-20; C11D003-386
CC
     46-6 (Surface Active Agents and
     Detergents)
     Section cross-reference(s): 7, 17
FAN.CNT 1
     PATENT NO.
                      KIND
                            DATE
                                           APPLICATION NO.
                                                            DATE
                      ____
                                           _____
ΡI
     JP 08012995
                       A2
                            19960116
                                           JP 1995-129388
                                                            19950428
PRAI JP 1994-114515
                      19940429
os
     MARPAT 124:346614
     Title compns., useful for removal of microorganisms from food, contain (A)
AB
     R1CO2CH2CH(OZ1)CH2OZ2 [R1 = C7-17 alkyl, alkenyl; .gtoreq.1 of Z1 and Z2
     is polycarboxylic acid (salt) and the other can be H] and/or (B) .gtoreq.1
     of (a) C8-18 fatty acid esters of glycerin, polyglycerin, sucrose,
     propylene glycol, sorbitan, and polyoxyethylene sorbitan ether and (b)
     food- or natural product-derived lecithin and enzyme-treated lecithin and
     (C) hydrolases. Thus, soybeans were washed with an aq. 0.3% mixt. of Na
     glycerin succinate monolaurate 20, Na2SO4 75, and Papain FL-3 (papain) 1
     part to show effective removal of microorganisms.
ST
     detergent microorganism removal food; polycarboxylic acid monoglyceride
     ester detergent; hydrolase blend microorganism removal food; fatty acid
     polyol ester detergent; lecithin blend microorganism removal food
ΙT
     Detergents
     Food
       (dishwashing detergents contg. polycarboxylic acid
<u>...</u> 1
      monoglyceride esters, polyol fatty acid
        esters and/or lecithins and hydrolase useful for food)
     9001-92-7, Protease
IT
     RL: FFD (Food or feed use); MOA (Modifier or additive use); BIOL
     (Biological study); USES (Uses)
     (Alkalase 2.4LFG; dishwashing detergents contg.
        polycarboxylic acid monoglyceride esters, polyol
     fatty acid esters and/or legithins and hydrolase and
Ł.,
       useful for food)
ÌΤ
     9012-54-8, Cellulase
     RL: FFD (Food or feed use); MOA (Modifier or additive use); BIOL
FL
     (Biological study); USES (Uses)
     (Cellulase 2000 CUN/g; dishwashing detergents contg.
        polycarboxylic acid monoglyceride esters, polyol
     fatty acid esters and/or lecithins and hydrolase
        useful for food)
TΤ
     34406-66-1, Decaglycerin monolaurate
     RL: FFD (Food or feed use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
        (Decaglyn 1-L; dishwashing detergents contg. polycarboxylic
      acid monoglyceride esters, polyol fatty
      acid esters and/or lecithins and hydrolase useful for food)
     9074-98-0, .beta.-Glucanase
IT
     RL: FFD (Food or feed use); MOA (Modifier or additive use); BIOL
     (Biological study); USES (Uses)
        (Glucane X; dishwashing detergents contg. polycarboxylic
      acid monoglyceride esters, polyol fatty
      acid esters and/or lecithins and hydrolase useful for food)
IT
     9001-62-1, Lipase
     RL: FFD (Food or feed use); MOA (Modifier or additive use); BIOL
     (Biological study); USES (Uses)
        (Lipozyme 10.000L; dishwashing detergents contg.
        polycarboxylic acid monoglyceride esters, polyol
     fatty acid esters and/or lecithins and hydrolase
       useful for food)
     9001-73-4, Papain f
    RL: FFD (Food or feed use); MOA (Modifier or additive use); BIOL
     (Biological study); USES (Uses)
        (Papain FL-3; dishwashing detergents contg. polycarboxylic
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DT,

Patent

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acid monoglyceride esters, polyol fatty
      acid esters and/or lecithins and hydrolase useful for food)
IT
     9032-75-1, Pectinase
     RL: FFD (Food or feed use); MOA (Modifier or additive use); BIOL
     (Biological study); USES (Uses)
        (Pectinex; dishwashing detergents contg. polycarboxylic
      acid mon glyceride esters, polyol fatty
      acid esters and/or lecithins and hydrolase useful for food)
IT
     9000-90-2, .alpha.-Amylase
     RL: FFD (Food or feed use); MOA (Modifier or additive use); BIOL
     (Biological study); USES (Uses)
        (Tenase 1200; dishwashing detergents contg. polycarboxylic
      acid monoglyceride esters, polyol fatty
      acid esters and/or lecithins and hydrolase useful for food)
     27194-74-7P, Propylene glycol monolaurate
     RL: FFD (Food or feed use); IMF (Industrial manufacture); TEM (Technical
     or engineered material use); BIOL (Biological study); PREP (Preparation);
     USES (Uses)
        (dishwashing detergents contg. polycarboxylic acid
      monoglyceride esters, polyol fatty acid
        esters and/or lecithins and hydrolase useful for food)
IT
     9033-06-1, Glucosidase 142462-61-1, Viscozyme 120L 150977-36-9,
     Bromelain
     RL: FFD (Food or feed use); MOA (Modifier or additive use); BIOL
     (Biological study); USES (Uses)
       .(dishwashing detergents contg. polycarboxylic acid
      monoglyceride esters, polyol fatty acid
        esters and/or lecithins and hydrolase useful for food)
     1337-30-0, Rikemal L 250A 7664-38-2D, Phosphoric acid, esters 9005-67-8, Nikkol TS 10 26402-22-2, Poem M-200 52683-61-1,
IT
     Ryoto Sugar Ester 0-1570 102604-15-9 145053-71-0
     145053-72-1 146701-91-9 151854-08-9
     160936-20-9, Lecinol LL-20 176199-56-7
     RL: FFD (Food or feed use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
        (dishwashing detergents contg. polycarboxylic acid
      monoglyceride esters, polyol fatty acid
        esters and/or lecithins and hydrolase useful for food)
IT
     26402-22-2, Poem M-200 102604-15-9 145053-71-0
     145053-72-1 146701-91-9 151854-08-9
     176199-56-7
     RL: FFD (Food or feed use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
        (dishwashing detergents contg. polycarboxylic acid
      monoglyceride esters, polyol fatty acid
        esters and/or lecithins and hydrolase useful for food)
RN
     26402-22-2 HCAPLUS
CN
     Decanoic acid, monoester with 1,2,3-propanetriol (9CI)
                                                               (CA INDEX NAME)
     CM
     CRN 334-48-5
     CMF C10 H20 O2 .
HO_2C-(CH_2)_8-Me
     CM
          56-81-5
     CRN
```

CMF

C3 H8 O3

. он | но- $\mathrm{CH_2}$ - CH - $\mathrm{CH_2}$ - он

RN 102604-15-9 HCAPLUS

CN Butanedioic acid, monoester with 1,2,3-propanetriol monohexadecanoate (9CI) (CA INDEX NAME)

CM 1

CRN 110-15-6 CMF C4 H6 O4

 $HO_2C-CH_2-CH_2-CO_2H$

CM 2

CRN 57-10-3 CMF C16 H32 O2

 HO_2C^- (CH₂)₁₄-Me

CM :

CRN 56-81-5 1, CMF C3 H8 O3

OH

но-сн2-сн-сн2-он

RN 145053-71-0 HCAPLUS

CN Butanedioic acid, ester with 1,2,3-propanetriol monodecanoate, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 334-48-5 CMF C10 H20 O2

 $HO_2C^-(CH_2)_8-Me$

CM 2

CRN 110-15-6 CMF C4 H6 O4

 $HO_2C-CH_2-CH_2-CO_2H$

CM 3

CRN 56-81-5

```
ОН
| .
```

 ${\tt HO-CH_2-CH-CH_2-OH}$

RN 145053-72-1 HCAPLUS

CN Butanedioic acid, ester with 1,2,3-propanetriol monododecanoate, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 143-07-7 CMF C12 H24 O2

 $HO_2C^-(CH_2)_{10}^-Me$

CM 2

CRN 110-15-6 CMF C4 H6 O4

 $HO_2C-CH_2-CH_2-CO_2H$

CM 3

CRN 56-81-5 CMF C3 H8 O3

OH

но-сн2-сн-сн2-он

RN 146701-91-9 HCAPLUS

CN Butanedioic acid, ester with 1,2,3-propanetriol monododecanoate (9CI) (CA INDEX NAME)

CM 1

CRN 143-07-7 CMF C12 H24 O2

 $HO_2C^-(CH_2)_{10}^-Me$

CM 2

CRN 110-15-6 CMF C4 H6 O4

НО2С-СН2-СН2-СО2Н

CRN 56-81-5 CMF C3 H8 O3 OH $HO-CH_2-CH-CH_2-OH$ 151854-08-9 HCAPLUS RN Butanedioic acid, ester with 1,2,3-propanetriol monotetradecanoate (9CI) CN (CA INDEX NAME) The state of the s CRN 544-63-8 CMF C14 H28 O2 ${\rm Ho_2C^-}$ (CH₂)₁₂-Me CMCRN 110-15-6 CMF C4 H6 O4 $HO_2C-CH_2-CH_2-CO_2H$ CM CRN 56-81-5 CMF C3 H8, O3 OH $HO-CH_2-CH-CH_2-OH$ 176199-56-7 HCAPLUS RN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ester with 1,2,3-propanetriol CN monotetradecanoate (9CI) (CA INDEX NAME) CM 544-63-8 CMF C14 H28 O2 $HO_2C^-(CH_2)_{12}^-Me$

CM

CRN

CMF

2

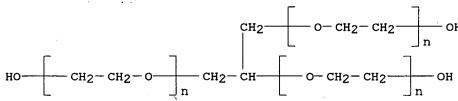
77-92-9

C6 H8 07

```
CO2H
HO_2C - CH_2 - C - CH_2 - CO_2H
          OH
   . CM
     CRN
          56 - 81 - 5
     CMF
          C3 H8 O3
        ·OH·
HO-CH_2-CH-CH_2-OH
    ANSWER 12 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
     1995:985900 HCAPLUS
ΑN
DN
     124:11418
     Liquid detergent composition with mildness to skin
TT
IN
    Erilli, Rita; Adamy, Steven; Mehreteab, Ammanuel; Bala, Frank Jr
PA
     Colgate-Palmolive Co., USA
     PCT Int. Appl., 28 pp.
so
     CODEN: PIXXD2
DT
    Patent ....
LA
     English
     ICM C11D001-825
TC
     ICS C11D001-83; C11D001-94
CC
     46-6 (Surface Active Agents and
     Detergents)
FAN. CNT 4
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO.
                                                             DATE
     WO 9523204
                      A1
                            19950831
                                            WO 1995-US2162
                                                             19950227
PΙ
             AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB,
             GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW,
             MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TT, UA,
             UZ, VN
         RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
             LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
             SN, TD, TG
                      , A1
     AU 9519257
                            19950911
                                            AU 1995-19257
                       A1
                            19961218
                                            EP 1995-911841
         R: DE, DK, FR, GR, SE
PRAI US 1994-203125 19940228
     US 1995-384310
                      19950206
                                                      J Been
     WO 1995-US2162
                     19950227
AB
     A high-foaming light-duty liq. detergent compn. (e.g., for dishwashing)
     with good detergency and mildness to skin contains a partially esterified
     ethoxylated polyhydric alc. and .gtoreq.1 surfactant selected from
     water-sol. nonionic surfactants, water-sol. foaming anionic surfactants
     and water-sol. foaming betaine surfactants. A compn. contained Levenol
     F200 (partial esters of ethoxylated glycerol and coco fatty acids), coco
     amidopropyl betaine, ethoxylated fatty alcs., Na dodecanesulfonate, water,
     and additives.
ST
     solubílizer fatty ester ethoxylate glycerol detergent; skin mildness
     detergent ester ethoxylate glycerol; dishwashing lig detergent ester
     ethoxylate glycerol; liq detergent solubilizer ester ethoxylate glycerol
     Solubilizers
                                                       1162
        (esters of fatty acids and ethoxylated
      glycerol; in liq. detergent compns. with mildness to skin)
ΙT
     Detergents
                                                      35, 64
        (dishwashing, liq., esters of fatty acids
                                                      5.S / T
```

157 1841

and ethoxylated glycerol as solubilizers in compns. with mildness to skin) IT Detergents (liq., esters of fatty acids and ethoxylated glycerol as solubilizers in compns. with mildness to skin) IT 31694-55-0D, esters with fatty acids RL: TEM (Technical or engineered material use); USES (Uses) (solubilizers; in liq. detergent compns. with mildness to skin) 31694-55-0D, esters with fatty acids IT RL: TEM (Technical or engineered material use); USES (Uses) (solubilizers; in liq. detergent compns. with mildness to skin) RN 31694-55-0 HCAPLUS CN Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME) And the state of t



ANSWER 13 OF 24

L35

IT

Detergents

WAR STORY

HCAPLUS COPYRIGHT 2001 ACS Omepus. Ith 1995:905367 HCĀPLUS ΑN 123:290538 _ 5 : DNAqueous composition for cleaning of interior surfaces of dishwashing ΤI Haerer, Juergen; Burg, Birgit; Jeschke, Peter; Hill, Karlheinz IN Henkel K.-G.a.A., Germany PA males, it Ger. Offen., 8 pp. SO CODEN: GWXXBX JSEA (DT Patent T.A German ICM C11D001-66 IC 1 ICS C11D001-825; C11D017-00; C07H015-04 C07C233-18; C07C059-245; C07C059-265; C07C043-11 ICA ICI C11D001-66, C11D003-20, C11D001-72, C11D001-66 CC 46-6 (Surface Active Agents and Detergents) FAN.CNT 1 APPLICATION NO. PATENT NO. KIND DATE DATE ____ _____ PΙ DE 4401103 A119950720 DE 1994-4401103 19940117 WO 9519417 A1 ' 19950720 WO 1995-EP65. 19950109 W: JP, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE PRAI DE 1994-4401103 19940117 MARPAT 123:290538 OS The title compn. contains an N-contg. nonionic surfactant (e.g., AB N-methyl-N-octanoylglucamine), a water-sol. polyhydric alc. (e.g., glycerol), and a water-sol. compd. contg. 2-6 C, .gtoreq.1 carboxy group, and, optionally, OH groups (e.g., citric acid) and removes lime deposits, food residues, etc., from metal, plastic, and rubber surfaces in dishwashing machines. ST glucamide cleaner dishwashing machine; dishwashing machine interior cleaner; citric acid cleaner dishwashing machine; glycerol cleaner dishwashing machine TΤ Incrustations (aq. cleaners for interior surfaces of dishwashing machines for removal of) IT Dishwashing (machines; ag. cleaners for interior surfaces of)

```
(cleaning compns., liq., for interior surfaces of dishwashing
       machines)
    56-81-5, Glycerol, uses 77-92-9, Citric acid, uses
IT
     6284-40-8D, N-Methylglucamine, amides with C6-12 fatty
            9003-11-6D, Ethylene oxide-propylene oxide copolymer,
     monoalkyl ethers 25322-68-3D, Polyethylene glycol, monoalkyl ethers
     85261-20-7, N-Methyl-N-decanoylglucamine 85316-98-9,
    N-Methyl-N-octanoylglucamine
    RL: TEM (Technical or engineered material use); USES (Uses)
        (in aq. cleaners for interior surfaces of dishwashing
       machines)
TΤ
    56-81-5, Glycerol, uses
    RL: TEM (Technical or engineered material use); USES (Uses)
        (in aq. cleaners for interior surfaces of dishwashing
       machines)
                     And definitions
     56-81-5 HCAPLUS
RN
     1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
        OH
HO-CH2-CH-CH2-OH
    L35
    1995:878862 HCAPLUS'
AN
DN
    123:260467
    Solid compositions containing quaternary ammonium compounds with ester
ΤI
    groups and showing good dispersibility in water 1
    Wahle, Bernd; Bigorra Llosas, Joaquim; Pi, Rafael; Soler Codina, Antoni;
IN
    Brau Balaque, Emili; Jansen, Yvonne; Waltenberger, Peter
    Henkel KGaA, Germany; Pulcra S.A.
PA
    Ger., 5 pp.
SO
    CODEN: GWXXAW
DT
     Patent ·
LА
     German
    ICM C07C219-06
IC
     ICS C07C213-08; C07C069-708; C07C069-734; D06M013-463; B01F017-18
    C07C043-13; C07C043-11; C07C043-178; C07C043-15; C07C211-03; A61K007-075;
    A61K007-08; A61K007-11; C08G065-32; C09K003-16
CC
     46-5 (Surface Active Agents and
    Detergents)
    Section cross-reference(s): 62
FAN.CNT 1
    PATENT NO.
                     KIND DATE
                                         APPLICATION NO.
     ______
    DE 4339643
                           19950608
                      C1
                                         DE 1993-4339643
                                                         19931120
    WO 9514654
                          19950601
                     A1
                                         WO 1994-EP3743
                                                         19941111
        W: JP, US
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
    EP 729450
                     Α1
                          19960904
                                         EP 1995-901371
                                                         19941111
                          19980422
                      В1
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE
    JP.09505314
                     T2
                          19970527
                                         JP 1994-514790
                                                         19941111
    AT 165337
                          19980515
                                        'AT 1995-901371
                                                         19941111
    ES 2115346
                     T3 19980616
                                         ES 1995-901371
                                                         19941111
                    Α
    US 5783534
                          19980721
                                         US 1996-648100
                                                         19960715
PRAI DE 1993-4339643 19931120
    WO 1994-EP3743
                    19941111
os
    MARPAT 123:260467
    The title compns., contq. ethoxylated fatty alcs. and partial glycerides,
AB
    are prepd. for use as fabric softeners, hair conditioners, etc. The
    product of the esterification of 1 mol triethanolamine with 1.2 mol
    partially hydrogenated tallow fatty acids was mixed with ethoxylated (40
    mol) tallow alc, and glycerol monostearate and quaternized with Me2SO4 to
```

give a waxy solid having a bright color and showing good dispersibility

```
when mixed (10 g) with 90 g water (pH 3.3).
ST
     quaternary ammonium ester solid dispersibility water; softener fabric
     quaternary ammonium ester; hair conditioner quaternary ammonium ester;
     ethoxylate alc dispersant quaternary ammonium ester; glycerol monostearate
     dispersant quaternary ammonium ester; stearate glycerol dispersant
     quaternary ammonium ester
IT
     Quaternization
        (of triethanolamine fatty acid esters in prepn. of
        solid compns. with dispersibility in water)
IT
     Dispersing agents
      (partial glycerides and ethoxylated alcs.; in solid compns.
        contg. quaternized triethanolamine fatty acid
        esters with dispersibility in water)
IT
     Antistatic agents
     Softening agents
        (quaternized triethanolamine fatty acid esters, for
        fabrics; in solid compns. with dispersibility in water)
IT
     Hair preparations
        (conditioners, quaternized triethanolamine fatty acid
        esters; in solid compns. with dispersibility in water)
IT
     Quaternary ammonium compounds, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (ester group-contg., fabric softeners and hair conditioners;
        in solid compns. with dispersibility in water)
İT
     Alcohols, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
     (fatty, ethoxylated; in solid compns. contg. quaternized,
31.
     triethanolamine fatty acid esters with
        dispersibility in water)
     25322-68-3D, Polyethylene glycol, monoalkyl ethers 31566-31-1,
IT
     Glycerol monostearate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (fabric softeners and hair conditioners; in solid compns.
        contg. quaternized triethanolamine fatty acid
        esters with dispersibility in water)
IT
     77-78-1D, Dimethyl sulfate, quaternization products with esters of
     triethanolamine and fatty acids
                                       102-71-6D,
     Triethanolamine, esters with fatty acids, quaternized
     RL: TEM (Technical or engineered material use); USES (Uses)
        (fabric softeners and hair conditioners; in solid compns.
        with dispersibility in water)
IT
     31566-31-1, Glycerol monostearate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (fabric softeners and hair conditioners; in solid compns.
        contg. quaternized triethanolamine fatty acid
        esters with dispersibility in water)
RN
     31566-31-1 HCAPLUS
CN
     Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX
     NAME)
     CM
     CRN
          57-11-4
     CMF
          C18 H36 O2
              - 1
              12
{
m HO_2C^-} (CH<sub>2</sub>)<sub>16</sub>-Me
                    11 1
     CM
```

417

CRN

CMF

56-81-5

C3 H8 O3

ace a

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ANSWER 15 OF 24 HCAPLUS COPYRIGHT 2001 ACS
1.35
AΝ
     1995:680659 HCAPLUS
DN
     123:59622
TI
    Low-foaming rinse aids containing alkoxylated sorbitol fatty acid esters
     and defoamers
IN
   Baum, Burton M.
PA
    Ecolab Inc., USA
SO
    PCT Int. Appl., 35 pp.
    CODEN: PIXXD2
DΤ
     Patent
LA
    English
    ICM C11D003-22
IC
     ICS C11D001-00; C11D010-04; C11D001-66; C11D017-00
     46-4 (Surface Active Agents and
    Detergents)
FAN.CNT 1
                     KIND DATE
     PATENT NO.
                                         APPLICATION NO. DATE
    WO 9424253 A1 19941027
                                        WO 1994-US3194 19940324
        W: AU, CA, CN, NZ
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                                     AU 1994-65519 19940324
    AU 9465519
                     A1
                           19941108
    AU 673072
                     B2
                           19961024
                     19930420
PRAI US 1993-50531
    WO 1994-US3194 19940324
     Food-grade rinse aids for dishwashing contain an alkoxylated sorbitol
AB
     fatty acid ester, (e.g., Tween 80) and a defoamer (e.g., Na oleate).
     dishwashing rinse aid alkoxylate sorbitol ester; ethoxylate sorbitol ester
     rinse aid dishwashing; defoamer rinse aid dishwashing; oleate sodium
     defoamer rinse aid; soap defoamer rinse aid dishwashing
IT
     Siloxanes and Silicones, uses
     Soaps
     RL: MOA (Modifier or additive use); USES (Uses)
        (defoamers; in dishwashing rinse aids contq. alkoxylated
       sorbitol fatty acid esters)
ΙŤ
    Antifoaming agents
       (dishwashing rinse aids contg. alkoxylated sorbitol
     fatty acid esters and)
                                 · i .
    Dishwashing
        (rinse aids; alkoxylated sorbitol fatty acid
        ester-defoamer mixts. for)
IT
     Surfactants
        (nonionic, alkoxylated sorbitol fatty acid esters;
     dishwashing rinse aids contg. defoamers and)
     143-19-1, Sodium oleate
                              9016-00-6, Dimethyl siloxane 25496-72-4
     , Glycerol monooleate 31566-31-1, Glycerol
                   31900-57-9, Dimethylsilanediol polymer
    monostearate
     RL: MOA (Modifier or additive use); USES (Uses)
     (defoamer; in dishwashing rinse aids contg. alkoxylated
      sorbitol fatty acid esters)
IT
     9005-65-6, Tween 80
     RL: TEM (Technical or engineered material use); USES (Uses)
        (dishwashing rinse aids contg. defoamers and) _{t=t_{\rm int}}
IT
     25496-72-4, Glycerol monooleate 31566-31-1,
                                                     difficult
     Glycerol monostearate
    RL: MOA (Modifier or additive use); USES (Uses)
        (defoamer; in dishwashing rinse aids contg. alkoxylated
        sorbitol fatty acid esters) ...
RN
     25496-72-4 HCAPLUS
CN
     9-Octadecenoic acid (9Z)-, monoester with 1,2,3-propanetriol (9CI)
     INDEX NAME) nits
```

. 1.

```
CM
     CRN \cdot 112 - 80 - \hat{1}
     CMF C18 H34 O2
     CDES 2:Z
Double bond geometry as shown.
     (CH2)7
HO2C
     ५-१, , हिम्ह्यूएइस
     到往2、四辆管
     CRN 56-81-5
     CMF C3 H8 O3
        OH
HO-CH2-CH-CH2-OH
RN
     31566-31-1 HCAPLUS
CN
     Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX
     NAME)
     1147
            3 By 103
     CM
         57-11-4
     CRN
         C18 H36 O2
     CMF
{\rm HO_2C^-} (CH<sub>2</sub>)<sub>16</sub>-Me
     CM
     CRN
         56-81-5
     CMF C3 H8 O3
        OH
HO-CH2-CH-CH2-OH
    ANSWER 16 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
ΑN
     1994:194549 HCAPLUS
DN
TI
     Multipurpose high-efficiency detergent cream without water washing
IN
     Xu, Hanlie; Liu, Guanzhong
PΑ
     Peop. Rep. China
SO
     Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
     CODEN: CNXXEV
DT
     Patent
LΑ
     Chinese
IC
     ICM C11D001-74
     ICS C11D017-00; A61K007-50
     46-6 (Surface Active Agents and
    Detergents)
```

FAN.CNT 1

```
KIND DATE
               PATENT NO.
                                                                                                    APPLICATION NO.
                                           ---- ----
                                                       A
                                                                     19921223
                                                                                                           CN 1991-107409
   PΙ
              CN 1067263
                                                                                                                                                    19910527
  AB
              Detergents contain surfactants 2-10, bases 0.1-5, thickeners 1-15,
               skin-protecting agents 0.5-25, antifreeze agents 2-5, preservatives 0.1-2,
               antioxidants 0.1-2%, perfumes, and H2O. Thus, a detergent contained
               C16-18 alcs. 5, glycerin monostearate 1.5, stearic acid 4, while oil 12.5,
               a lauryl sulfate salt 4.5, glycerin 3, Peregal 4, poly(vinyl alc.) 3, H2O
               60, light CaCO3 2.5%, and perfume.
              detergent paste water washing free
  ST
  ΙT
              Antioxidants
                      (BHT, detergent pastes contg., requiring no water washing)
  IT
               Lanolin
              RL: USES (Uses)
                 (skin protecting agents, detergent pastes contg., requiring no water
in hill with
                 washing)
  IT
              Alcohols, uses
              RL: USES (Uses)
                      (C16-18, skin protecting agents, detergent pastes contg., requiring no
                      water washing)
  IT
               Fats and Glyceridic oils
              RL: USES (Uses)
                      (apricot kernel, skin-protecting agents, detergent pastes contg.,
                      requiring no water washing)
                                                                                                                         The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
              Fatty acids, esters
              RL: TEM (Technical or engineered material use); USES (Uses)
               (ethoxylated, surfactants, detergent pastes contg., requiring no water
               ~washing) >
                                                                     %38018X3
                                                                                                          The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
              Essential oils (USES (USES) (Orange, sweet, skin-protecting agents, detergent pastes contg.,
  ΙŤ
                     requiring no water washing)
              Detergents (pastes, requiring no water washing)
  IT
              Paraffin oils V. IT.
  IT
                                                                                        £.
              RL: USES (Uses)
                      (white oils, skin protecting agents, detergent, pastes contg., requiring
                      no water washing)
               57-55-6, 1,2-Propanediol, uses
              RL: USES (Uses)
                      (antifreezes, detergent pastes contg., requiring no water
                washing)
               128-37-0, BHT, miscellaneous 137-40-6, Sodium propionate
               RL: MSC (Miscellaneous)
                      (antioxidants, detergent pastes contg., requiring no water
               57-13-6, Urea, uses 102-71-6, uses 142-91-6, Isopropyl hexadecanoate
               471-34-1, Calcium carbonate, uses
               RL: USES (Uses)
                      (detergent pastes contg., requiring no water washing)
               94-26-8, Butyl p-hydroxybenzoate 99-76-3 120-47-8
               RL: USES (Uses)
                      (preservatives, detergent pastes contg., requiring no water
                 washing)
              56-81-5, 1,2,3-Propanetriol, miscellaneous 57-11-4, Stearic
              acid, miscellaneous
                                                                                    · . i
                                                                                                                                     gent ,
              RL: MSC (Miscellaneous)
                  (skin protecting agents, detergent pastes contg., requiring no water
                                                   00.11
               75-21-8D, Oxirane, reaction products with lanolin alc. esters
              Lauric acid diethanolamide 151-41-7D, Lauryl sulfate, salts 2016-48-0
                                          16613-87-9 25322-68-3D, Polyethylene glycol, fatty esters
              RL: TEM (Technical or engineered material use); USES (Uses)
                      (surfactants p_{i} detergent pastes contg., requiring no water
                 washing)
  IT
               9002-89-5, Poly(vinyl alcohol) 9004-32-4 9005-38-3
                                                                                                                                                            12619-70-4,
              Cyclodextrin 31566-31-1, Glycerin monostearate
```

```
RL: USES (Uses)
                      (thickeners, detergent pastes contg., requiring no water
                washing)
              56-81-5, 1,2,3-Propanetriol, miscellaneous
 IT
             RL: MSC (Miscellaneous)
                     (skin protecting agents, detergent pastes contg., requiring no water
               washing)
 RN
              56-81-5 HCAPLUS
              1,2,3-Propanetriol (9CI) (CA INDEX NAME)
                      OH
 HO-CH_2-CH-CH_2-OH
and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th
             31566-31-1, Glycerin monostearate
             RL: USES (Uses)
                     (thickeners, detergent pastes contq., requiring no water
                washing)
 RN
              31566-31-1 HCAPLUS
 CN
             Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX
             CRN 57-11-4
CMF C18 H36 O2
                                                     dependent fastes compa
                                                                                                                      on a thraigh arm in that
              that he help and the same of the
              The second special section of the
 HO2C-(CH2)16-Me Casting a start determine
                                                                                                                         of a fitting and a later of
              John Company B
                  ,
                                  the same of the time
              ĊΜ
             CRN .56-81-5
             CMF C3 H8 O3
                     ОН
 HO-CH_2-CH-CH_2-OH
                                                                                                                               the agreement
             ANSWER 17 OF 24. HCAPLUS COPYRIGHT 2001 ACS
 L35
             1993:149891 HCAPLUS
 ΑN
              118:149891
 DN
             Drying agent compositions for automatic dishwashing machines
 TI
 IN
             Itoi, Takashi; Tsutazumi, Junichi; Nakae, Tokuo
 PA
             Kao Corp., Japan
             Jpn. Kokai Tokkyo Koho, 3 pp.
 SO
             CODEN: JKXXAF
 DT
             Patent
 LA
             Japanese
              ICM C11D017-00
 IC
              ICS C11D001-68; C11D003-20
 CC
              46-6 (Surface Active Agents and
             Detergents)
 FAN. CNT 1
             PATENT NO.
                                                                                                              APPLICATION NO.
                                                        KIND DATE
                                                       ____
 PΙ
             JP 04306298
                                                         A2
                                                                       19921029
                                                                                                              JP 1991-70752
                                                                                                                                                         19910403
             The title agents providing spot-free, shiny washed dishes contain (A)
AB
```

C8-14 partial fatty acid esters or C18 partial unsatd. fatty acid esters of sucrose, sorbitan, propylene glycol, and (poly)glycerin and (B) C8-14

```
fatty acid or C18 unsatd. fatty acid esters of glycerin succinate,
     tartarate, or citrate at A/B wt. ratio 97/3 to 10/90. A compn. with good
     low-temp. storability comprised sucrose caprate 20, glycerin succinate
     caprate 10, propylene glycol 30, EtOH 10, and water 30 parts.
    drying aid automatic dishwashing machine; fatty ester drying aid
ST
    dishwashing; polyol ester drying aid dishwashing
IT
    Esters, uses
    Glycerides, uses
    RL: USES (Uses)
      (drying aids, for automatic dishwashing machines)
IT
    Drying agents
        (ester-based, for automatic dishwashing machines)
IT
    Fatty acids, esters
    RL: USES (Uses)
        (esters, drying aids, for automatic dishwashing machines)
IT
     1323-39-3, Propylene glycol stearate 9007-48-1, Polyglycerin
            9042-71-1, Sucrose myristate 11140-02-6, Glycerin
    myristate 11140-04-8, Glycerin caprylate 26266-57-9, Sorbitan
    palmitate 31835-06-0, Sucrose caprate 37321-62-3, Propylene glycol
     laurate 51330-20-2 95508-00-2, Sorbitan caprylate
    101994-21-2, Glycerin succinate laurate 102036-74-8,
     Glycerin succinate palmitate 102036-75-9, Glycerin succinate
     stearate 146701-89-5 146701-92-0 146701-93-1
     146701-94-2 146701-95-3
    RL: USES (Uses)
       (drying aids _{L8} for automatic dishwashing machines) _{(1,1,\dots,1,1)}
    9007-48-1, Polyglycerin oleate 11140-02-6, Glycerin
IT
    myristate 11140-04-8, Glycerin caprylate 51330-20-2
    101994-21-2, Glycerin succinate laurate 102036-74-8,
    Glycerin succinate palmitate 102036-75-9, Glycerin succinate
S'...
    stearate 146701-89-5 146701-92-0 146701-93-1
    146701-94-2 146701-95-3
    RL: USES (Uses)
        (drying aids, for automatic dishwashing machines)
RN
     9007-48-1 HCAPLUS
     1,2,3-Propanetriol, homopolymer, (9Z)-9-octadecenoate (9CI) (CA INDEX
CN
    NAME)
    CM
    CRN 112-80-1
    CMF C18 H34 O2 1 1
    CDES 2:Z
Double bond geometry as shown.
                   701 -
                           Мe
    CM
         25618-55-7
    CRN
         (C3 H8 O3) x
    CMF
         PMS
    CCI
              3
         CRN 56-81-5
         CMF 'C3 H8 03
```

он | но- $\mathrm{CH_2}-\mathrm{CH-CH_2}-\mathrm{OH}$

```
но-сн2-сн-сн2-он
RN
     11140-02-6 HCAPLUS
CN
     Tetradecanoic acid, ester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)
     CM
     CRN
         544-63-8
     CMF C14 H28 O2
HO2C- (CH2) 12-Me - 1 1194
     CM
    CRN
         56-81-5
     CMF C3 H8 O3
        OH
HO-CH_2-CH-CH_2-OH
     . ...
     11140-04-8 HCAPLUS
RN
CŅ
    Octanoic acid, ester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)
         i delle, dellia,
                                CRN 124-07-2
     CMF C8 H16 O2
          . . . . . . .
HO_2C-(CH_2)_6-Me
    CM
         2
    CRN 56-81-5
    CMF C3 H8 O3
        ОН
HO-CH_2-CH-CH_2-OH
RN
     51330-20-2 HCAPLUS
CN
     1,2,3-Propanetriol, homopolymer, hexadecanoate (9CI) (CA INDEX NAME)
     CM 1
     CRN 57-10-3
     CMF C16 H32 O2
HO_2C^-(CH_2)_{14}^-Me
```

ОН

CM

2

```
CRN
                                              25618-55-7
                       CMF
                                               (C3 H8 O3)x
                       CCI
                                              PMS
                                                                , 3.
                                 . CM
                                              CRN 56-81-5
                                                               C3 H8 O3
                                              CMF
                                      ОН
HO-CH_2-CH-CH_2-OH
                                                    And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
                      101994-21-2 HCAPLUS
                      Butanedioic acid, ester with 1,2,3-propanetriol dodecanoate (9CI) (CA
CN
                      INDEX NAME)
                      CM
                                              1
                       CRN
                                           143-07-7
                       CMF
                                           C12 H24 O2
HO2C- (CH2) 10-Me Me Me
                                        The Francisco
                       CM
                                              2.
                      CRN
                                              110-15-6
                       CMF
                                            C4 H6 O4
                                                                                                (.3
{\tt HO_2C-CH_2-CH_2-CO_2H}
                       CM
                      CRN
                                           56-81-5
                                                                                                                                                                                                                                                         Out
                      CMF C3 H8 O3
                                      OH
HO - CH_2 - CH - CH_2 - OH
RN
                       102036-74-8 HCAPLUS
                      Butanedioic acid, ester with 1,2,3-propanetriol hexadecanoate (9CI) (CA
                       INDEX NAME)
                      CM
                                              1
                      CRN
                                              110-15-6
                      CMF
                                            C4 H6 O4
HO_2C-CH_2-CH_2-CO_2H
```

CM₂

57-10-3 CRN C16 H32 O2 HO_2C^- (CH₂)₁₄-Me CM 3 CRN 56-81-5 CMF C3 H8 O3 the participation of the contraction of the contrac $HO-CH_2-CH-CH_2-OH$ 102036-75-9 HCAPLUS RNButanedioic acid, ester with 1,2,3-propanetriol octadecanoate (9CI) (CA CN INDEX NAME) CM CRN 110-15-6 CMF C4 H6 O4 $HO_2C-CH_2-CH_2-CO_2H$ CM CRN 57-11-4 CMF С18 Н36 О2 HO_2C^- (CH₂)₁₆-Me CM 3 CRN 56-81-5 CMF C3 H8 O3 OH $HO-CH_2-CH-CH_2-OH$

, 10

RN

CN

CM

CRN

CMF

1

77-92-9

C6 H8 O7

146701-89-5 HCAPLUS

hexadecanoate (9CI) (CA INDEX NAME)

1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ester with 1,2,3-propanetriol

```
CO2H
            с— сн<sub>2</sub>— со<sub>2</sub>н
            OH
     CM
           57-10-3
     CRN
           C16 H32 O2
     CMF
     CM
     CRN
           56-81-5
     CMÈ
           C3 H8 O3
         ОН
но-сн2-сн-сн2-он
     erhebro orthag cogni
     146701-92-0 HCAPLUS
RN
     Butanedioic acid, ester with 1,2,3-propanetriol octanoate (9CI)
CN
     NAME)
     CM
           1
     CRN
           124-07-2
     CMF
           C8 H16 O2
HO_2C^- (CH<sub>2</sub>)<sub>6</sub>-Me
     CM
           2
           110-15-6
     CRN
     CMF
           C4 H6 O4
HO_2C-CH_2-CH_2-CO_2H
```

CM 3

CRN 56-81-5 CMF C3 H8 O3

он | но-сн₂-сн-сн₂-он

RN 146701-93-1 HCAPLUS
CN Butanedioic acid, ester with 1,2,3-propanetriol (9Z)-9-octadecenoate (9CI)
(CA INDEX NAME)

CRN 112-80-1 CMF C18 H34 O2

CDES 2:Z

Double bond geometry as shown.

CM 2

CRN 110-15-6 CMF C4 H6 O4

но2с-сн2-сн2-со2н

CM 3

CRN 56-81-5 CMF C3 H8 O3

OH

но- ch₂- ch- ch₂- он

RN 146701-94-2 HCAPLUS

CN Butanedioic acid, 2,3-dihydroxy- (2R,3R)-, ester with 1,2,3-propanetriol dodecanoate (9CI) (CA INDEX NAME)

भारतकार्यकार्थः द्वारात्रः भारतकारात्रः स्थान सम्बन्धान्तरः

CM 1

CRN 143-07-7 CMF C12 H24 O2

 ${\rm HO_2C^-}$ (CH₂)₁₀-Me

CM 2

CRN 87-69-4 CMF C4 H6 O6 CDES 1:R2:R*,R*

Absolute stereochemistry.

CRN 56-81-5 CMF C3 H8 O3

он | но- $\mathrm{CH_2}$ - CH - $\mathrm{CH_2}$ - он

RN 146701-95-3 HCAPLUS

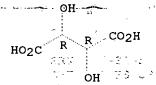
CN Butanedioic acid, 2,3-dihydroxy- (2R,3R)-, ester with 1,2,3-propanetriol hexadecanoate (9CI) (CA INDEX NAME)

- 「記」はGCBARGON、ECENT TO FILTERTYPEST TO THE MEMBERS (1997) (1997) (1997)

CM :

CRN 87-69-4 CMF C4 H6 O6 CDES 1:R2:R*,R*

Absolute stereochemistry.



- CM 2

CRN 57-10-3 CMF C16 H32 O2

HO₂C- (CH₂) 14-Me = 3.44 ±

CM 3

20

CRN 56-81-5 CMF C3 H8 O3

Contract of the Contract of

ОН

HO-CH2-CH-CH2-OH

L35 ANSWER 18 OF 24 HCAPLUS COPYRIGHT 2001 ACS

AN 1993:126997 HCAPLUS

DN 118:126997

TI Mixtures of fatty acid amides and esters as foam stabilizers

IN Smidrkal, Jan; Krob, Vaclav; Klecan, Vaclav; Smidrkalova, Eva; Korinek, Jaroslav

PA Czech.

SO Czech., 4 pp. CODEN: CZXXA9

DT Patent

LA Czech

IC ICM C11D001-46

ICA C11D001-52; C11D003-32

```
Detergents)
        Section cross-reference(s): 62
FAN.CNT 1
        PATENT NO.
                                    KIND DATE
                                                                         APPLICATION NO. DATE
                                                                         CS 273737 B1 19910411
PΙ
                                                                   CS 1988-6489 19880930
AB
        Mixts. of C8-22 fatty acid amides and esters in a resp. wt. ratio
        100:(2-50) are claimed as foam stabilizers for bath prepns., hair
        shampoos, liq. soaps, and detergents. The amide component comprises mono-
        or diethanolamides or their 20: (1-10) resp. mixts. and ester component
        comprises dihydroxypropyl monoesters, hydroxypropyl diesters, or/and
         (ethanol)aminoethyl esters of the above acids. Thus, to a liq. soap
        formulation contg. triethylammonium laurylsulfate 8,
      lauramidopropylbetaine 2, stearoyl ethylene glycol 2, distearoyl ethylene
        glycol 1, coconut oil sucroglyceride 1%, dye, and fragrance in H2O, was
        added 2% foam stabilizer comprising a synergistic mixt. of hydrogenated
        rapeseed oil fatty acid diethanolamides 72, ethanolamides 8,
        ethanolaminoethyl esters 12, and diethanolaminoethyl esters 8. The foam
        stability of the latter formulation after 10 min was 170 mm, vs. 152 mm
        without stabilizer and 162 mm with coco fatty acid diethanolamides as ref.
        foam stabilizers.
        foam stabilizer liq soap; fatty amide ester foam stabilizer; rapeseed
        fatty diethanolamide foam stabilizer; hydroxypropyl ester rapeseed foam stabilizer; ethylaminoethyl ester coco foam stabilizer
         Shampoos <u>A derive to a line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line i</u>
         and amides as)
       Stabilizing agents
          for foams, mixts. of fatty acid esters and amides
             as)
IT
        Foams
              (stabilizers for, mixts. of fatty acid esters and
             amides as) aller and self-end attractions are
             ides, uses
USES (Uses)
(C8-22, N,N-bis(hydroxyethyl), fatty acid esters
IT
        Amides, uses
        RL: USES (Uses)
             and, foam stabilizers for soaps, shampoos, and detergents) ,
        Amides, uses
RL: USES (Uses)
IT
                                                                                           3.61
              (C8-22, N-(hydroxyethyl), fatty acid esters and c_{11}
           foam stabilizers for soaps, shampoos, and detergents)
        Fatty acids, esters
RL: USES (Uses)
IT
                                                                                     r anol sa
                                                                                           -thv1
             (coco, esters, with diethanolaminoethane, foam, stabilizer mixts.
            contg., for soaps, shampoos, and detergents) id it is
        Amides, uses
IT
        RL: USES (Uses)
        (coco, N,N-bis(hydroxyethyl), foam stabilizer mixts. contg., for soaps, shampoos, and detergents)
        Bath preparations
              (foams, stabilizers for, mixts. of fatty acid
             esters and amides as)
ΙT
        RL: USES (Uses)
              (liq., foam stabilizers in, mixts. of fatty acid
             esters and amides as)
IT
        Glycerides, uses
        RL: USES (Uses)
              (mixed mono- and di-, C8-22, foam stabilizers contq. fatty
          acid amides and, for soaps, shampoos, and detergents)
IT
        Glycerides, uses
        RL: USES (Uses)
             (rape-oil mono-, hydrogenated, foam stabilizer mixts. contq., for
             soaps, shampoos, and detergents)
ΙT
        Amides, uses
        RL: USES (Uses)
```

46-4 (Surface Active Agents and

```
(rape-oil, hydrogenated, N,N'-bis(hydroxyethyl), foam stabilizer mixts.
        contq., for soaps, shampoos, and detergents)
    Amides, uses
IT
    RL: USES (Uses)
        (rape-oil, hydrogenated, N-(hydroxyethyl), foam stabilizer mixts.
        contg., for soaps, shampoos, and detergents)
     56-81-5, 1,2,3-Propanetriol, uses
TΤ
     RL: USES (Uses)
        (foam stabilizer mixt. contg. fatty acid amides and
        esters and, for soaps, shampoos, and detergents)
     102-71-6D, Triethanolamine, esters with coco and rapeseed oil
IT
     fatty acids
     RL: USES (Uses)
        (foam stabilizer mixt. contg. fatty amides and, for soaps, shampoos,
        and detergents)
IT \ 111-42-2D, coco and rape oil fatty acid amides and
     esters
     RL: USES (Uses)
        (foam stabilizer mixt. contg. glycerol and, for soaps,
        shampoos, and detergents)
IT
     56-81-5, 1,2,3-Propanetriol, uses
     RL: USES (Uses)
        (foam stabilizer mixt. contg. fatty acid amides and
        esters and, for soaps, shampoos, and detergents)
     56-81-5 HCAPLUS
     1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
       a star con a application, continu
     ఎట్టిక్ కా ఉంది.
    : TO OH S PARSON.
       но- ch2- ch- ch2- он
     ANSWER 19 OF 24 HCAPLUS COPYRIGHT 2001 ACS
     1990:201182 HCAPLUS
DN
    Alkyl glycoside-based acleaning compositions for hard-surfaced articles
TI
IN
     Saijo, Hiroyuki; Saito, Kozo; Deguchi, Katsuhiko
    Kao Corp., Japan,
PA
     Jpn. Kokai Tokkyo Koho, 6 pp.
     CODEN: JKXXAF
DT
     Patent
LА
     Japanese
    ICM C11D017-00
     ICS C11D001-68; C11D003-20
     46-6 (Surface Active Agents and
    Detergents)
                                 1.4
                                                   west but !
FAN. CNT 1
               KIND DATE
     PATENT NO.
                                          APPLICATION NO.
     ______
                   A2
                                          JP 1988-134887
     JP 01304198
                           19891207
                                                           19880601
PΙ
                           19940427
     JP 06031401
                     В4
     Title compns., mild on the skin with good foaming and detergency and
AΒ
    useful for dishwashing, comprise 2-200 parts alkyl glycoside-based
     surfactants and 1 part fatty acid esters of trihydric or higher alcs.
     Thus, a compn. contg. 18% C9-11-alkyl glucoside and 4% capric acid
    monoglyceride (I) showed improved foaming and detergency with no chapping
     of hand compared with a control without I.
     dishwashing detergent alkyl glucoside surfactant; polyhydric alc ester
ST
     dishwashing detergent; fatty acid ester dishwashing detergent
IT
     Glycosides
    RL: USES (Uses)
        (alkyl, dishwashing detergents contg. fatty
     acid polyhydric alc. esters and)
     Detergents Vol.
ŤΤ
      (cleaning compns., dishwashing, contg. alkyl glycosides and
```

Sec. 6

```
fatty acid polyhydric alc. esters)
IT
     Fatty acids, esters
     RL: USES (Uses)
      (esters, of polyhydric alcs. with, dishwashing detergents
        contg. alkyl glycosides and)
IT
     Fatty acids, esters
     RL: USES (Uses)
     (esters, with polyhydric alcs., dishwashing detergents contg.
       alkyl glycosides and)
     26402-22-2, Capric acid monoglyceride 27215-38-9
IT
     , Lauric acid monoglyceride
     RL: USES (Uses)
        (alkyl glycoside-based surfactants contg., detergents for
      dishwashing)
IT 50-99-7D, Glucose, C9-13-alkyl derivs. RL: TEM (Technical or engineered material use); USES (Uses)
        (surfactants, contg. fatty acid polyhydric alc.
        esters, detergents for dishwashing)
TΨ
     26402-22-2, Capric acid monoglyceride 27215-38-9
     , Lauric acid monoglyceride
     RL: USES (Uses)
        (alkyl glycoside-based surfactants contg., detergents for
      dishwashing)
RN ·
     26402-22-2 HCAPLUS
     Decanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)
CN
         Ay rould be by by direct that the rate
         i yaya
     CM
     CRN 334-48-5-
CMF C10 H20 O2
     - -
        3.00
                                                  Hoteland .
HO_2C— (CH_2) 8—Me
                               1 71....
             -. . . . ia
         2 Charles
                  widen. Francisch et
                                                 the England
     CRN 56-81-5
     CMF C3 H8 O3
                              ril
      OH
                                                  05533
                            1. Table 1. Table 1.
                          i ner
       Tara a sprie e to
                             , 1.7c.
HO-CH2-CH-CH2-OH CH. Co.
                                47.4.2
                                                  the transfer of
     27215-38-9 HCAPLUS
RN
CN
     Dodecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)
             4. . 15.33
                                .i.,
                                                   -(1.5.1)
     CM
     CRN 143-07-7
     CMF C12 H24 O2
HO_2C^-(CH_2)_{10}^-Me
     CM
          2
     CRN
         56-81-5
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CMF

C3 H8 O3

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ANSWER 20 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
     1988:206728 HCAPLUS
ΑN
DN
     108:206728
TI
     Detergent compositions containing abrasives
     Deguchi, Katsuhiko; Saijo, Hiroyuki
IN
PΑ
     Kao Corp., Japan
     Jpn. Kokai Tokkyo Koho, 9 pp.
SO
     CODEN: JKXXAF
    Patent
DT
     Japanese
LA
IC
     ICM C11D010-02
     C11D010-02, C11D001-29, C11D001-22, C11D001-14, C11D001-75, C11D001-52,
ICI
     C11D003-14, C11D001-722
CC
     46-6 (Surface Active Agents and
     Detergents)
FAN.CNT 1
                      KIND DATE
     PATENT NO.
                                           APPLICATION NO.
                            19880125
PI
     JP 63017999
                      A2
                                           JP 1986-161197 19860709
                      В4
     JP 04041717
                            19920709
AB
     The title compns. with good dispersion stability (storability) and
    mildness to hands contain anionic surfactant(s) chosen from
    polyoxyethylene alkyl ether sulfate salt, alkylbenzenesulfonate salt,
     .alpha.-olefin sulfonate salt, and alkane sulfonate 3-25,
     mono-linear-alkyl tertiary amine oxide 1-10, fatty acid alkanolamide 1-10,
     alkoxylated polyol and/or its sulfate ester salt 0.1-10, and water-insol
     abrasive (Mohs hardness 2-8, av. diam. 1-100 .mu.) at pH 4.0-6.5. A
     typical compn. (pH 5) for dishwashing comprised polyoxyethylene lauryl
     ether sulfate Na salt 10, lauryl dimethylamine oxide 4, coco fatty acid
     diethanolamide 5, polyethylene glycol 2, silica (Mohs hardness 7, and
     diam. 20 .mu.) 10, and water to 100%.
ST
     abrasive contg liq detergent mild; silica contg dishwashing detergent mild
IT
    Amides, uses and miscellaneous
     RL: USES (Uses)
        (detergents, liq., dishwashing, contg. abrasives, mild)
IT
     (silica, in liq. dishwashing detergents, mild) _{a,bbb,\ldots,b_{a,b,b,a}}
ΙT
        (dishwashing, liq., contg., abrasives, storable, mild)
     Amines, oxides
     RL: USES (Uses)
       (N-oxides, detergents, liq., dishwashing, contg., abrasives,
     7631-86-9, uses and miscellaneous
     RL: USES (Uses)
        (abrasives, liq. dishwashing detergents contg., mild)
     111-42-2D, coco fatty acid amides 1643-20-5, Lauryl
     dimethylamine oxide 9004-82-4, 9038-78-2 25155-30-0
     25322-69-4 31694-55-0, Polyethylene glycol glycerol
            50586-59<sub>7</sub>9<sub>7</sub> 78067-35-3 114464-79-8 114465-08-6
     RL: USES (Uses)
                                                      0.1 - 1
        (detergents, liq., dishwashing, contg. abrasives, mild) 6
     31694-55-0, Polyethylene glycol glycerol ether polym
IT
     114464-79-8
     RL: USES (Uses)
        (detergents, liq., dishwashing, contg. abrasives, mild)
RN
     31694-55-0 HCAPLUS
    Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
CN
    propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
                                 1 1 1 L
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- сн<sub>2</sub>-- сн-
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114464-79-8 HCAPLUS RN

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-CN propanetriyltris[.omega.-(sulfooxy)-, sodium salt (9CI) (CA INDEX NAME);

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CH2-
-сн<sub>2</sub>-сн-
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ANSWER 21 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
NΑ
     1988:152593 HCAPLUS
DN
     108:152593
     Rinsing aids for automatic dishwasher
TΙ
     Suzuki, Hideki; Sakai, Kaname; Kasahara, Akiko
TN
     Asahi Denka Kogyo K. K., Japan
PΑ
SO
     Jpn. Kokai Tokkyo Koho, 3 pp.
     CODEN: JKXXAF hane
                                                  1 1 collect 1
                                1 110
     Patent + Li
DT
                              ' - . : 100. "
                  53:41.0
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Japanese LА

IC ICM C11D010-02

ICI C11D010-02, C11D001-72, C11D003-38, C11D003-20

46-6 (Surface Active Agents and CC Detergents)

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO.

PΙ JP 62288697 A2 19871215 JP 1986-131272 19860606

AB The title aids providing spot-free glass and plastic tableware in reduced drying time contain polyoxyethylene sorbitan fatty acid ester, glycerol (and/or sugar alc.), and water. A compn. for polyoxyethylene sorbitan monolaurate 20, glycerol 60, and water 20% was dild. 1:2,000 and used as rinsing aid.

. (9.1

ST polyoxyethylene sorbitan laurate rinsing aid; glycerol rinsing aid automatic dishwasher

IT Detergents

(rinsing aids, polyoxyethylene sorbitan fatty acid ester-based, for automatic dishwashers)

IT Fatty acids, esters

RL: USES (Uses)

(esters, with ethoxylated sorbitan, rinsing aids, for automatic

dishwashers) 50-70-4, Sorbitol, uses and miscellaneous 56-81-5, IT Glycerol, uses and miscellaneous 9005-64-5 9005-65-6, Polyoxyethylene sorbitan monooleate 9005-67-8, Polyoxyethylene sorbitan monostearate 9005-70-3 RL: USES (Uses)

(rinsing aids contg., for automatic dishwashers)

IT 56-81-5, Glycerol, uses and miscellaneous

12/3 stad

```
RL: USES (Uses)
        (rinsing aids contg., for automatic dishwashers)
RN
     56-81-5 HCAPLUS
CN
     1,2,3-Propanetriol (9CI) (CA INDEX NAME)
        ОН
но-сн2-сн-сн2-он
L35 ANSWER 22 OF 24 HCAPLUS COPYRIGHT 2001 ACS
AN 1987:479993 HCAPLUS
                                                                    ja 489-44,13.
DN 107:79993
     Emulsion-type dishwashing compositions
ΤI
     Deguchi, Katsuhiko; Tosaka, Masaki
IN
PA
     Kao Corp., Japan
     Jpn. Kokai Tokkyo Koho, 8 pp.
so
     CODEN: JKXXAF
DT
     Patent
LΑ
     Japanese
     ICM C11D003-38
IC
     46-6 (Surface Active Agents and
CC
     Detergents)
     Section cross-reference(s): 75
                       onic <u>lio</u>d automiji
FAN. CNT 1
     PATENT NO. KIND DATE
                                           APPLICATION NO.
     JP 62027495
                      A2
                          19870205
PΙ
                                           JP 1985-167032
                                                            19850729
     Oil-in-water-type emulsions contg. lyotropic liq. crystals are prepd. from
AΒ
     emulsifiers 5-40, emulsifying auxiliaries 0.5-10, oils 5-40%, and water.
     Thus, a compn. comprised polyoxyethylene sorbitan monostearate (d.p. 20,
     emulsifier) 6, sorbitan monostearate (emulsifier) 7, a liq. paraffin 15,
     cetostearyl alc. 2, and water (balance).
ST
     emulsion dishwashing compn; lyotropic liq crystal dishwashing compn
IT
     Egg yolk
        (lecithins of, emulsifying auxiliaries, for oil-in-water-type
        emulsions, for dishwashing, contg. lyotropic liq. crystals)
IT
     Coconut oil
     Olive oil
     Paraffin oils
     RL: USES (Uses)
        (oil-in-water-type emulsions, for dishwashing compns., contg.
        lyotropic liq. crystals)
ΙT
     Alcohols, uses and miscellaneous
     RL: USES (Uses)
        (C16-18, emulsifying auxiliaries, for oil-in-water-type emulsions, for
      dishwashing, contg. lyotropic liq. crystals)
     Oils, glyceridic
IT
     RL: USES (Uses)
     ayocado, oil-in-water-type emulsions, for dishwashing
        compns., contg. lyotropic liq. crystals)
     Amides, uses and miscellaneous
IT
     RL: USES (Uses)
       (coco, N,N-bis(hydroxyethyl), emulsifiers for oil-in-water type
       emergence, for dishwashing, contg. lyotropic liq. crystals)
IT
     Detergents.
        (dishwashing, oil-in-water-type emulsions, contg. lyotropic
        liq. crystals)
IT
     Lecithins
     RL: USES (Uses) -
                                                      11-1
        (egg yolk, emulsifying auxiliaries, for oil-in-water-type emulsions,
        for dishwashing, contg. lyotropic liq. crystals)
IT
     Castor oil
```

RL: USES (Uses)

```
(hydrogenated, poly(oxyethylene) derivs., emulsifiers, for
        oil-in-water-type emulsions for dishwashing, contg. lyotropic
        liq. crystals)
ΙT
     Waxes and Waxy substances
     RL: USES (Uses)
        (jojoba, oil-in-water-type emulsions, for dishwashing
        compns., contg. lyotropic liq. crystals)
IT
     Liquid crystals
        (lyotropic, oil-in-water-type emulsions contg., for dishwashing
IT
     Emulsions
        (oil-in-water, for dishwashing, contg. lyotropic liq.
        crystals)
     Amides, uses and miscellaneous
IT
     RL: USES (Uses)
       (palm-oil, N-(hydroxyethyl), emulsifiers for oil-in-water type
        emergence, for dishwashing, contg. lyotropic liq. crystals)
ΙT
     Fatty acids, uses and miscellaneous
     RL: USES (Uses)
        (tallow, emulsifying auxiliaries, for oil-in-water-type emulsions, for
      dishwashing, contg. lyotropic liq. crystals)
     57-50-1D, beef tallow fatty acid esters 102-71-6D,
IT
     fatty acid salts 124-22-1 1338-41-6, Sorbitan
     monostearate 9002-92-0 9005-67-8, Polyoxyethylene sorbitan monostearate 25322-68-3D, hardened castor oil derivs. 31566-31-1
     , Glycerin monostearate. 31694-55-0D, mono beef tallow fatty.
     esters 69070-98-0 107807-12-5 109882-91-9 RL: TEM (Technical or engineered material use); USES (Uses)
     emulsifiers, for oil-in-water-type emulsions for dishwashing
       compns., contg. lyotropic liq. crystals)
                                                      110-27-0, Isopropyl
     57-88-5, Cholesterol, uses and miscellaneous
     myristate 111-42-2D, coco alkyl derivs. 112-53-8, Lauryl alcohol 141-43-5D, palm-oil fatty amides 9004-32-4 9004-62-0 9004-67-5,
     Methyl cellulose; 9007-16-3, 9049-37-0, Pectic acid sodium salt
     RL: USES (Uses)
        (emulsifying auxiliaries, for oil-in-water-type emulsions, for
      dishwashing, contg. lyotropic liq. crystals)
IT
     7732-18-5
     RL: USES (Uses),
        (emulsions, oil-in-water, for dishwashing, contg. lyotropic
        liq. crystals)
     111-01-3, Squalane 7360-38-5 59130-69-7, Cetyl<sub>liq</sub>
IT
     2-ethylhexanoate
     RL: USES (Uses)
        (oil-in-water-type emulsions, for dishwashing compns., contg.
        lyotropic liq. crystals)
     31566-31-1, Glycerin monostearate 31694-55-0D, mono beef
     tallow fatty esters
     RL: TEM (Technical or engineered material use); USES (Uses)
       (emulsifiers, for oil-in-water-type emulsions for dishwashing
        compns., contg. lyotropic lig. crystals)
RN
     31566-31-1, HCAPLUS
     Octadecanoic acid, monoester with 1,2,3-propanetriel (9CI), (CA INDEX
CN
             in the second
                                   1. 1. 1.
                                                        ford
             11.1
                                 1 - 1
                                                      1171
                                                       -53-8,
                    - 47 - .
                                                                 . 41
          57-11-4
          C18 H36 O2,
                                                       004-0
                                  1 - 3
                                                        3610
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HO2C= (CH2) 16=Me PATY
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ОН
HO-CH2-CH-CH2-OH
RN
     31694-55-0 HCAPLUS
     Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
CN
     propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
                         CH2-CH
IT
     7360-38-5
     RL: USES (Uses)
     control (oil-in-water-type emulsions, for dishwashing compns., contg.
      --lyotropic lig. crystals)
     7360-38-5 HCAPLUS
RN
CN
     Hexanoic acid, 2-ethyl-, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)
         CH-CH2-O-C-
Et-CH-Bu-n
L35
     ANSWER 23 OF 24 HCAPLUS COPYRIGHT 2001 ACS
ΑN
     1987:425152 HCAPLUS
DN
     107:25152
T \cdot I
     Low foaming biodegradable nonionic surfactants
ΑU
     Piorr, R.; Hoefer, R.; Schluessler, H. J.; Schmid, K. H.
CS
     Henkel K.-G.a.A., Duesseldorf, 4000/1, Fed. Rep. Ger.
SO
     Fett Wiss. Technol. (1987), 89(3), 106-11
     CODEN: FWTEEG
DT
     Journal
LΑ
     German .
CC
     46-4 (Surface Active Agents and
     Detergents)
     Section cross-reference(s): 35
     Mixed diethers and hydroxy mixed diethers of polyethylene glycol were good
AB
     low-foaming surfactants for bottle washing and antifoaming agents for
     emulsion polymn. and were biodegradable.
ST
     polyoxyethylene diether antifoamer polymn; biodegradable nonionic
     nonfoaming detergent
IT
     Antifoaming agents
        (nonionic, biodegradable, ethoxylates, prepn. of, for emulsion polymn.)
IT
     Bottles
        (washing of, prepn. of biodegradable nonionic low-foaming
        surfactants for)
IT
     Surfactants
        (biodegradable, nonionic, low-foaming, ethoxylates, prepn. of, for
```

automated bottle washing)

```
u<sub>a</sub>, IŢ
      Fatty acids, esters
      RL: SPN (Synthetic preparation); PREP (Preparation)
         (branched, vinyl esters, polymers with acrylic acid and vinyl acetate,
         prepn. of, in emulsion, antifoaming agents for)
 IT
      Polymerization
         (emulsion, of acrylic acid with vinyl acetate and vinyl versatate,
         antifoaming agents for)
IT
     Alcohols, compounds
      RL: SPN (Synthetic preparation); PREP (Preparation)
         (fatty, ethoxylated, prepn. of, as low-foaming biodegradable detergents
         for bottle washing)
      98815-11-3 98815-12-4
                               98815-13-5
 IT
                                             98815-14-6
      RL: USES (Uses)
         (antifoaming agents, for emulsion polymn. of acrylic acid with vinyl
        acetate and vinyl versatate)
     9004-98-2D; mixed ethers with hydroxystearyl alc. 25618-55-7D,
      Poly glycerol, ethoxylated, alkyl ethers 61909-81-7D, mixed
      ethers with oleyl alc. 94619-17-7 109075-71-0 109075-72-1
     RL: USES (Uses)
         (foam-inhibiting properties of)
IT
      52503-47-6
     RL: USES (Uses)
         (foaming inhibiting properties of)
 IT
      79-10-7DP, polymers with vinyl acetate and branched fatty
     acid vinyl esters 108-05-4DP, polymers with acrylic acid
     and branched fatty acid vinyl esters
     RL: SPN (Synthetic preparation); PREP (Preparation)
         (prepn. of, in emulsion, antifoaming agents for).
IT
     25618-55-7D, Poly glycerol, ethoxylated, alkyl ethers
     RL: USES (Uses)
         (foam-inhibiting properties of)
     25618-55-7, HCAPLUS
RN
     1,2,3-Propanetriol, homopolymer (9CI) (CA INDEX NAME)
          56-81-5
     CRN
     CMF C3 H8 O3
                                   . . . 1
                                                       ROLY
         OH
HO-CH_2-CH-CH_2-OH - \frac{1}{2}
              •...
                    Cir.,
     ANSWER 24 OF 24 HCAPLUS COPYRIGHT 2001 ACS
L35
AN
     1985:408015 HCAPLUS
DN
TI
     Work of adhesion of oily dirt and correlation with washability
ΑU
     Saito, Masako; Otani, Mamiko; Yabe, Akihiko
CS
     Kyoritsu Women's Univ., Tokyo, Japan
SO
     Text. Res. J. (1985), 55(3), 157-64
     CODEN: TRJOA9; ISSN: 0040-5175
DΫ
     Journal
               . . ;
LΑ
     English
CC
     46-5 (Surface Active Agents and
     Detergents)
     Section cross-reference(s): 40
AB
     Adhesion and removal of dirt in the detergent process was interpreted from
     the point of interfacial phenomena, and the energetic measure of the
     adhesion and removal reaction was estd. by the work of adhesion (Wa) of
     each system using the dispersion and polar force components of polymers
     and oily dirt. Soilability and washability of oily dirt were estd. from
     the values of Wa, and the correlation between Wa and washability was
```

triglycerides on cellulosic, diacetate, triacetate, and polyester fabrics.

confirmed through expts. involving fatty acids, fatty alcs., and

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The limitations and applicability of this surface energy anal. to the
     detergency system were then discussed.
ST
    work adhesion oily dirt textile; detergency oily dirt textile; acetate
     fiber work adhesion dirt; polyester fiber work adhesion dirt; cellulosic
     fiber work adhesion dirt; washability textile oily dirt; surface energy
     washability textile
IT
    Detergency
        (in oily dirt removal from textiles, work of adhesion and surface
        energy in relation to)
IT
     Polyester fibers, properties
    Rayon, properties
    RL: PRP (Properties)
     (work of adhesion of oily dirt on, washability in relation to)
    Fatty acids, properties
     Glycerides; properties
     RL: PRP (Properties)
        (work of adhesion of, calcn. of, on fibers)
IT
    Energy
        (adhesive, of oily dirt, on textiles, washability in relation
        to)
IT
    Acetate fibers, properties
     RL: PRP (Properties)
                                           -, ----
        (diacetate, work of adhesion of oily dirt on, washability in
     The relation to) and applies white of the entry shall
    Acetate fibers, properties disc.
IT
    RL: PRP (Properties)
• • • •
     (triacetate, work of adhesion of oily dirt on, washability in
       relation to);
     relation to) 15 57-11-4, properties 60-01-5 71-36-3,
IT
     properties 71-41-0, properties 107-92-6, properties 111-27-3,
    properties 111-70-6 111-87-5, properties 112-30-1 112-53-8 112-72-1 124-07-2, properties 142-62-1, properties 143-07-7,
    properties 143-08-8 334-48-5 538-24-9 544-63-8, properties
     555-43-1 555-44-2 555-45-3 621-70-5
     26762-44-7 30207-98-8 36653-82-4
     RL: PRP (Properties)
        (work of adhesion of, calcn. of, on fibers)
     60-01-5 538-24-9 555-43-1 555-44-2
IT
     555-45-3 621-70-5
     RL: PRP (Properties)
        (work of adhesion of, calcn. of, on fibers)
     60-01-5 HCAPLUS
RN
CN
    Butanoic acid, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)
    n-Pr-c-o-cH2
          . .
       -O-CH_2-CH-O-C-Pr-n
     538-24-9 HCAPLUS
RŇ
     Dodecanoic acid, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)
CN
                                                     -11-1
    Me^-(CH_2)_{10}-C^-O^+CH_2
Me-(CH_2)_{10}-C-O-CH_2-CH-O-C-(CH_2)_{10}-Me
                   T.1: .
            Ω
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RN 555-43-1 HCAPLUS

CN Octadecanoic acid, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)

RN 555-44-2 HCAPLUS

CN Hexadecanoic acid, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)

RN 555-45-3 HCAPLUS

CN Tetradecanoic acid, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} & \text{O} \\ || \\ \text{Me-} (\text{CH}_2)_{12} - \text{C-} \text{O-} \text{CH}_2 & \text{O} \\ & | & || \\ \text{Me-} (\text{CH}_2)_{12} - \text{C-} \text{O-} \text{CH}_2 - \text{CH-} \text{O-} \text{C-} (\text{CH}_2)_{12} - \text{Me} \\ & || \\ & \text{O} \end{array}$$

RN 621-70-5 HCAPLUS

CN Hexanoic acid, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} O \\ || \\ Me-(CH_2)_4-C-O-CH_2 \\ || \\ Me-(CH_2)_4-C-O-CH_2-CH-O-C-(CH_2)_4-Me \\ || \\ O \end{array}$$

```
L9
                  SCR 1838
L12
                  STR
M2 1
M1 C
 3
```

NODE ATTRIBUTES:

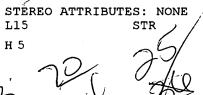
M2

| HCOUNT | IS | M2 | | AT | 1 | - | | | | | |
|---------|-----|------|----------|-----|------|----------|------|---|----|-----------|---|
| HCOUNT | | M1 | | AT | 2 | 2 | | | | | |
| HCOUNT | IS | M2 | | AT | 4 | 3.13 | 44.3 | | 1. | य प्रस्ती | |
| NSPEC | IS | С | | AΤ | 1 | - | | | | | |
| NSPEC | IS | С | | AΤ | 2 | 2 | | | | | |
| NSPEC | IS | С | | AT | 3 | 3 | | | | | |
| NSPEC | IS | С | . | AT | 4 | l | | | | | |
| NSPEC | IS | С | š' | AT | Š |) | | | | | |
| NSPEC | IS | С | | ÀΤ | 6 | 5 | | | | • | |
| DEFAULT | MLI | EVEL | IS | ATO | MC | | | | | | |
| MLEVEL | IS | CLAS | SS | AΤ | 1 | . 2 | 2 3 | 3 | 4 | 5 | 6 |
| DEFAULT | EC: | LEVE | LI | 5 L | rımı | ED | | | | | |
| | | | | | | | | | | | |

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS



VAR G1=5/2

G1 1

NODE ATTRIBUTES:

NSPEC IS C ÀΤ NSPEC IS C AT 2 NSPEC IS C ·AT IS C ΑŤ NSPEC

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

L17 32587 SEA FILE=REGISTRY SSS FUL L12 AND L15 NOT L9

| L19 | 99761 | SEA FILE=HCAPLUS ABB=ON PLU=ON L17 |
|-----|-------|--|
| L20 | 47758 | SEA FILE=HCAPLUS ABB=ON PLU=ON (SURFACE ACTIVE AGENTS AND |
| | | DETERGENTS)/CC |
| L21 | 1888 | SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND L19 |
| L33 | 827 | SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (GLYCERID? OR |
| | | TRIGLYCERID? OR GLYCEROL? OR MONOGLYCER? OR DIGLYCER?)/IT |
| L34 | 243 | SEA FILE=HCAPLUS ABB=ON PLU=ON (FATTY(3A)ACID)/IT AND L33 |
| L35 | 24 | SEA FILE=HCAPLUS ABB=ON PLU=ON (BATH? OR DISH? OR WASH? OR |
| | | HAIR)/IT AND L34 |
| L37 | 180 | SEA FILE=HCAPLUS ABB=ON PLU=ON (DETERGENT? OR SHAMPOOS OR |
| | | CONDITION? OR SOAP? OR SURFACTANT)/IT AND L34 |
| L39 | 52 | SEA FILE=HCAPLUS ABB=ON PLU=ON ((ETHOXYLAT? OR ALKOXYLAT? OR |
| | | PROPOXYL?) (S) (?GLYCER?)) AND L37 |
| L40 | 42 | SEA FILE=HCAPLUS ABB=ON PLU=ON L39 NOT L35 |
| | | |

```
ANSWER 1 OF 42 HCAPLUS COPYRIGHT 2001 ACS
T.40
     2001:28646 HCAPLUS
AΝ
DN
     134:87942
TΤ
     Aqueous pearlescent surfactant concentrates
IN
     Nieendick, Claus; Nalborczyk, Mirella; Eggers, Anke
PΑ
     Cognis Deutschland G.m.b.H., Germany
SO
     Eur. Pat. Appl., 15 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     German
IC
     ICM C11D003-20
         C11D001-66; C11D001-83; C11D001-835; C11D001-825; C11D001-94;
         A61K007-075
CC
     46-3 (Surface Active Agents and
     Detergents)
     Section cross-reference(s): 62, 63
FAN. CNT 1
     PATENT NO.
                     KIND DATE
                                           APPLICATION NO.
                                                           DATE
                                           -----
     EP_1067175
                     √ A1
                            20010110
                                           EP 2000-113882
                                                            20000630
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                      A1
     DE 19931998
                            20010118
                                          DE 1999-19931998 19990709
PRAI DE 1999-19931998 19990709
AB
     The title compns. contain esters (prepd. from polyols bearing 2-6 OH
     groups, C1-22 fatty acids, and C2-4 hydroxy acids) 1-99.9, emulsifiers
11
     0.1-99 and polyols 0-40%. An aq. mixt. of glycerol
5.57
     monostearate malate 25, ethoxylated (d.p. 4) coco alcs. 5,
coco-alkyl, glucoside 9, coco fatty acid betaine 5, and glycerol
     5% had viscosity 7.4 and 7.7 Pa-s after 1 and 14 days, resp., at
     40.degree. and good stability after 4 wk at 40.degree..
ST
     surfactant conc aq pearlescent; ester polyol surfactant aq pearlescent;
     glycerol stearate malate surfactant pearlescent; fatty acid betaine
     surfactant pearlescent; glucoside alkyl surfactant pearlescent
IT
     Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
       (C1-22, esters with polyols and hydroxy acids; aq. pearlescent
     surfactant concs.)
     Alcohols, uses
IT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (C2-6, polyhydric, esters with fatty acids and
        hydroxy acids; aq. pearlescent surfactant concs.)
IT
     Emulsifying agents
     Pearly materials
     Surfactants
        (aq. pearlescent surfactant concs.)
IT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (coco fatty acid; aq. pearlescent
      surfactant concs.)
IT
    Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (coco, betaines; aq. pearlescent surfactant concs.)
ΙT
    Alcohols, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
      (coco, ethoxylated; aq. pearlescent surfactant concs.)
IT
     Glycosides
     RL: TEM (Technical or engineered material use); USES (Uses)
        (coco-alkyl; aq. pearlescent surfactant concs.)
IT
    Carboxylic acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (hydroxy, C2-4, esters with polyols and fatty acids
        ; aq. pearlescent surfactant concs.)
```

```
IT-
             Esters, uses
              RL: TEM (Technical or engineered material use); USES (Uses)
                       (polyol-fatty acid-hydroxy acid; aq.
                      pearlescent surfactant concs.)
              56-81-5, Glycerol, uses 627-83-8, Ethylene glycol
IT
              distearate 236424-12-7, Glycerol monostearate malate
              316363-39-0, Ethylene glycol monostearate citrate 316363-40-3, Sorbitol
              distearate lactate
              RL: TEM (Technical or engineered material use); USES (Uses)
                       (aq. pearlescent surfactant concs.)
RE.CNT
RE
(1) Henkel Kgaa; DE 3843572 A 1990 HCAPLUS
 (2) Henkel Kgaa; DE 4103551 A 1992 HCAPLUS
(3) Henkel Kgaa; DE 19719121 C 1998 HCAPLUS (4) Henkel Kgaa; DE 19814608 C 1999 HCAPLUS
             56-81-5, Glycerol, uses 236424-12-7,
IT
             Glycerol monostearate malate
             RL: TEM (Technical or engineered material use); USES (Uses)
                    (aq. pearlescent surfactant concs.)
              56-81-5 HCAPLUS
RN
CN
              1,2,3-Propanetriol (9CI) (CA INDEX NAME)
                                                                                                                                  Commence of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the fi
                      OH
              T . | . " . 1388
HO-CH2-CH-CH2-OH Made is orginarded grate in the constant of second
                      |\psi_{ij}| \leq 1/\sqrt{1+\epsilon}entes una \epsilon_{ij}n \epsilon_{ij}n \epsilon_{ij}n \epsilon_{ij}n \epsilon_{ij}n \epsilon_{ij}n \epsilon_{ij}n \epsilon_{ij}
             236424-12-7 HCAPLUS

Butanedioic acid, hydroxy-, ester with 1,2,3-propanetriol
RN
CŃ
             monooctadecanoate (9CI) (CA INDEX NAME)
                                     7 4. J.
                                                    the transfer of
                       CRN
              CMF C4 H6 O5
               OH
                                 Section 1
HO2C-CH-CH2-CO2H
                        7 - 14 - A
                                    100 La 11
                                   1104.7
             CRN 31566-31-1
             CMF C21 H42 O4
             CCI IDS
             CDES 8:ID
             CM 3
                          CRN 57-11-4
                          CMF C18 H36 O2
HO_2C^- (CH<sub>2</sub>)<sub>16</sub>-Me
```

CM

CRN 56-81-5 CMF C3 H8 O3

```
ANSWER 2 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
     2000:900298 HCAPLUS
ΑN
DN
     134:58244
TI
     Manufacture of aqueous concentrates of pearlescent (hydroxy)polycarboxylic
     acid amides
     Nieendick, Claus; Eggers, Anke; Westfechtel, Alfred
IN
PA
     Cognis Deutschland G.m.b.H., Germany
     Eur. Pat. Appl., 16 pp.
SO
     CODEN: EPXXDW
DT
     Patent
LΑ
     German
IC
     ICM C11D001-52
         C11D001-65; C11D001-835; C11D001-645; C11D001-94; A61K007-00
CC
     46-3 (Surface Active Agents and
     Detergents)
     Section cross-reference(s): 62
FAN
                     'KIND' DATE
     PATENT NO.
                                           APPLICATION NO.
                                           -----
PI
     EP 1061121
                      A1
                            20001220
                                          EP 2000-112215
                                                            20000607
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     DE 19927171
                                          DE 1999-19927171 19990615
                      A1
                           20001221
PRAI DE 1999-19927171
                      19990615
    MARPAT 134:58244
OS
     The title concs., useful in detergents and pharmaceutical and cosmetic
AB
     formulations, comprise (a) (hydroxy)polycarboxylic acid amides
     R5R6NCOCHR1CR2R3COR4 [I; R1, R2 = H, OH; R3 = H, CO2H, CONR7R8; R4 = OH,
    NR9R10; R5, R7, R9 = H, C1-22 alk(en)yl; R6, R8, R10 = C1-22 alk(en)yl;
     radicals R3-R9 together contain .gtoreq.16 C atoms], (b) anionic,
     nonionic, cationic, ampholytic and/or zwitterionic emulsifiers 0.1-99, and
     (c) polyols, e.g., glycerol, polyethylene glycol, etc., 0-40%. I obtained
    by conversion of tartaric, citric and malic acid diesters with fatty
     amines are preferred. The preferred emulsifiers (b) are zwitterionic
     surfactants. For example, a title conc. used in hair shampoo contained
     tartaric acid N, N-di(coco alkyl)diamide 25, ethoxylated (4 EO)
     coco alcs. 5, coco alkyl glycoside 9, coco fatty acid betaine 5 and
     glycerol 5% in H2O.
     pearlescent hydroxy polycarboxylic acid alkylamide aq conc shampoo; pearly
ST
     luster aq conc hydroxy polycarboxylic acid alkylamide
     Polyoxyalkylenes, uses
IT
     RL: TEM (Technical or engineered material use); USES (Uses)
      (coco alkyl ethers; manuf. of aq. concs. of pearlescent
        N,N-dialkylamides of (hydroxy)polycarboxylic acids, emulsifiers and
        polyols)
TT
     Betaines.
     RL: TEM (Technical or engineered material use); USES (Uses)
     (coco fatty acid derivs.; manuf. of aq. concs. of
     pearlescent N, N-dialkylamides of (hydroxy) polycarboxylic acids,
      emulsifiers and polyols)
IT
     Pearly materials
     Shampoos
     (manuf. of aq. concs. of pearlescent N, N-dialkylamides of
       (hydroxy)polycarboxylic acids, emulsifiers and polyols)
TΤ
     Polyoxyalkylenes, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (manuf. of aq. concs. of pearlescent N, N-dialkylamides of
        (hydroxy)polycarboxylic acids, emulsifiers and polyols)
IT
    Emulsifying agents
```

(manuf. of aq. concs. of pearlescent N, N-dialkylamides of

```
(hydroxy)polycarboxylic acids, polyols and zwitterionic
           surfactants as)
IT
         Alcohols, uses
         RL: TEM (Technical or engineered material use); USES (Uses)
                (polyhydric; manuf. of aq. concs. of pearlescent N, N-dialkylamides of
                (hydroxy)polycarboxylic acids, emulsifiers and)
IT
               (zwitterionic, emulsifiers; manuf. of aq. concs. of pearlescent
               N, N-dialkylamides of (hydroxy) polycarboxylic acids, polyols and)
         56-81-5, Glycerol, uses 57-55-6, 1,2-Propylene glycol, uses 107-41-5, Hexylene glycol 627-83-8, Ethylene glycol distearate
IT
         uses 107-41-5, Hexylene glycol 627-83-8, Ethylene glycol distearat 6051-30-5D, Tartaric acid diamide, N,N-di(coco alkyl) derivs.
         25265-75-2, Butylene glycol 25322-68-3, Polyethylene glycol
         25322-68-3D, Polyethylene glycol, coco alkyl ethers
          RL: TEM (Technical or engineered material use); USES (Uses)
              (manuf. of aq. concs. of pearlescent N, N-dialkylamides of
                (hydroxy)polycarboxylic acids, emulsifiers and polyols)
RE.CNT
RE
(1) Ansmann, A; WO 9906514 A 1999 HCAPLUS
(2) Henkel Kgaa; DE 3843572 A 1990 HCAPLUS
(3) Henkel Kgaa; DE 4103551 A 1992 HCAPLUS
(4) Henkel Kgaa; DE 19622968 A 1997 HCAPLUS
(5) Kao Corp; JP 08231985 A 1996 HCAPLUS Hiteland Barrer 1996
(6) Otsuka Pharma Co Ltd; EP 0500946 A 1992 HCAPLUS
(7) Rhone Poulenc, Inc., WO 9713498 A. 1997, HCAPLUS
IT
         56-81-5, Glycerol, uses
         RL: TEM (Technical or engineered material use); USES (Uses)
         (manuf. of aq. concs. of pearlescent N, N-dialkylamides of
               (hydroxy)polycarboxylic acids, emulsifiers and polyols)
RN
          56-81-5 HCAPLUS
         1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
                         والمحارب والمعارية
         to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of
HO-CH_2-CH-CH_2-OH
           33 1 - 1 - 1 Hay 1 -
         ANSWER 3 OF 42 HCAPLUS COPYRIGHT 2001 ACS
         2000:756381 HCAPLUS
AΝ
         133:323320
DN
         Toilet bowl sanitizers
TI
TN
         Kahre, Joerg; Elsner, Michael; Hanke, Anja; Kischkel, Ditmar; Fabry, Bernd
         Cognis Deutschland Gmbh, Germany
PΑ
ŠО
         Ger. Offen., 10 pp.
         CODEN: GWXXBX
         Patent Carrier German
DT
LΑ
         ICM C11D001-94
IC
         46-6 (Surface Active Agents and
         Detergents)
                             KIND DATE
                                                                             APPLICATION NO.
                                                                                -----
         DE 19918185
                                                     20001026
                                                                                DE 1999-19918185 19990422
                                          A1
         WO 2000065005
                                                  20001102
                                                                               WO 2000-EP3297
                                         A2
                 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
                       PT, SE
PRAI DE 1999-19918185 19990422
os
         MARPAT 133:323320
AΒ
         Flush-activated toilet cleaning gel compns. are based on (a) alkyl and/or
         alkenyl oligoglycoside, (b) alkyl and/or alkenyl (ether) sulfates and/or
```

esters. The compns. are bactericidal, have improved cleaning capacity, do

betaines, and (c) ethoxylated glycerol fatty acid

```
not require thickeners, have good foaming ability, can incorporate
     considerable amts. of perfumes, and show a long operating life with
     complete flush-dispensing of ingredients. Examples contained Glucopon
     650EC and/or 220UP, Texapon LS 35 and/or NSO, optionally Dehyton K, and
     PEG glyceryl stearate, isostearate, and/or behenate.
     toilet bowl sanitizer flush activated
ST
ΙT
     Glycosides
     RL: TEM (Technical or engineered material use); USES (Uses)
        (alkyl oligoglycosides; flush-activated toilet bowl sanitizing compns.
ΙT
     Surfactants
        (anionic; flush-activated toilet bowl sanitizing compns. contg.)
IT
     Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (esters, with triethoxylated glycerol; flush-activated toilet
        bowl sanitizing compns. contg.)
ΙŤ
     Betaines
     RL: TEM (Technical or engineered material use); USES (Uses)
        (flush-activated toilet bowl sanitizing compns. contg.)
ΙT
        (nonionic; flush-activated toilet bowl sanitizing compns. contg.)
ΙT
     Glycosides
     RL: TEM (Technical or engineered material use); USES (Uses)
        (oligoglycosides, alkenyl; flush-activated toilet bowl sanitizing
        compns. contg.)
     Detergents - Rep
ΙT
       (toilet bowl cleaners; flush-activated toilet bowl sanitizing compns.)
     9004-82-4, Texapon NSO 53195-79-2 83138-08-3, Dehyton K.
ΙT
                 152987-82-1, Texapon LS 35
                                               177893-29-7, Glucopon
     84101-04-2
     650EC 220385-22-8, Glucopon 220UP 303150-20-1
     RL: TEM (Technical or engineered material use); USES (Uses)
ς .
        (flush-activated toilet bowl sanitizing compns. contg.)
ΙT
     53195-79-2 84101-04-2 303150-20-1
     RL: TEM (Technical or engineered material use); USES (Uses)
        (flush-activated toilet bowl sanitizing compns. contg.)
RN
     53195-79-2 HCAPLUS
CN
     Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
     propanetriyltris[.omega.-hydroxy-, monooctadecanoate (9CI) (CA INDEX
     NAME)
     CM
     CRN
     CMF
          (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C3 H8 O3
     CCI
          PMS
                                              - CH2
     CM
     CRN
          57-11-4
     CMF
          C18 H36 O2.
```

 $HO_2C^-(CH_2)_{16}^-Me$

RN 84101-04-2 HCAPLUS

propanetriyltris[.omega.-hydroxy-, monoasooctadecanoate (9CI) ... (CA.-INDEX NAME) 1 . CM 31694-55-0 CRN (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C3 H8 O3 CMF CCI **PMS** CH2-CH-2 CM CRN 30399-84-9 CMF C18 H36 O2 CCI (IDS: [22] hareduyl) (:] pha. (a); CDES. 8: ID. ISO TELL AND THE PARTY OF THE P 7.7. (1) 0 - ' $HO-C-(C_{17}H_{35}-iso)$ water of the probability of the contract of 303150-20-1 HCAPLUS RN CN Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3propanetriyltris[.omega.-hydroxy-, monodocosanoate (9CI) (CA INDEX NAME) CM CRN 31694-55-0 CMF (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C3 H8 O3; CCI **PMS** о- сн2- сн2 ·CM CRN 112-85-6 CMF C22 H44 O2

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-

 HO_2C^- (CH₂)₂₀-Me

CN.

L40 ANSWER 4 OF 42 HCAPLUS COPYRIGHT 2001 ACS AN 2000:548783 HCAPLUS

```
DN.
     133:165462
ΤI
     Solid premixes for laundry rinsing aids
     Schreiber, Manfred; Seliskar, Marjana
IN
PA
     Clariant G.m.b.H., Germany
so
     Ger. Offen., 4 pp.
     CODEN: GWXXBX
\mathbf{DT}
     Patent
LΑ
     German
IC
     ICM D06M013-46
     ICS D06M013-224
CC
     46-6 (Surface Active Agents and
FAN.CNT 1
                             DATE
     PATENT NO.
                       KIND
                                            APPLICATION NO. DATE
                                            ______
                       ____
                                            DE 1999-19904234 19990203
PΙ
     DE 19904234
                       A1
                             20000810
os
     MARPAT 133:165462
AΒ
     The title compns., with good dispersibility, contain the quaternized
     betaines RCONH(CH2)aN(R1)(R1)CH2COOR+ A- [R = C1-21 \text{ alkyl(ene)}, R1 = C1-4]
     alkyl, a = 1-3, A = anion] 50-90; polyol esters of specified structure
     1-20; alkoxylated amines or diamines 1-20; ethylene glycol,
     1,2-propanediol, or polyalkylene glycols (mol. wt. 200-4000) or their
     alkyl ethers 0-20%; and optionally acids. A suitable premix contained a
     quaternized betaine ester quat 75, ethoxylated (d.p. 3) C12-15 oxo alc. 5, ethoxylated stearylamine (d.p. 25) 5, and polyethylene glycol (mol. wt.
     400) 15%
ST
     laundry rinsing aid premix solid; betaine ester quat rinsing aid; ester
     polyol rinsing aid; stearylamine ethoxylated rinsing aid; amine
₹ ∵
     alkoxylated rinsing aid; polyethylene glycol rinsing aid; polyoxyalkylene
     rinsing aid solid
ΙT
     Alcohols, uses
     Amines, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
Ş 3
     (alkoxylated; solid premixes for laundry rinsing aids)
ÍΤ
     Polyoxyalkylenes, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (alkyl group-terminated; solid premixes for laundry rinsing aids)
     Amines, uses
ΙT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (diamines, alkoxylated; solid premixes for laundry rinsing aids)
IT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (ester quats; solid premixes for laundry rinsing aids)
     Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (esters; solid premixes for laundry rinsing aids)
IT
     Detergents
       (rinsing aids; solid premixes for laundry rinsing aids).
IT
     Polyoxyalkylenes, uses
     Polyoxyalkylenes, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (solid premixes for laundry rinsing aids)
IT
     56-81-5D, Glycerol, alkoxylated, fatty
     acid esters 57-55-6, 1,2-Propanediol, uses
                                                    107-21-1, Ethylene
     glycol, uses. 115-77-5D, Pentaerythritol, fatty acid
     diesters 25322-68-3, Polyethylene glycol 26635-92-7
     RL: TEM (Technical or enqineered material use); USES (Uses)
     (solid premixes for laundry rinsing aids)
IT
     56-81-5D, Glycerol, alkoxylated, fatty
     acid esters
     RL: TEM (Technical or engineered material use); USES (Uses)
        (solid premixes for laundry rinsing aids)
RN
     56-81-5 HCAPLUS
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1,2,3-Propanetriol (9CI) (CA INDEX NAME)

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     ANSWER 5 OF 42 HCAPLUS COPYRIGHT 2001 ACS
AN
      2000:57078 HCAPLUS
 DN
      133:19121
     Tensammetry of nonionic surfactants at solid-state electrodes. Correlation
 ΤI
     with other physicochemical parameters.
AU
      Buschmann, N.; Hulskotter, F.
      Chair for Analytical Chemistry, University of Munster, Munster, Germany
CS
 SO
      Riv. Ital. Sostanze Grasse (1999), 76(10), 419-424
      CODEN: RISGAD; ISSN: 0035-6808
      Stazione Sperimentale per le Industrie degli Oli e dei Grassi
PB
DT
      Journal
LA
      English
CC
      46-3 (Surface Active Agents and
     Detergents)
. AB
      The most important property of surface active agents is their ability to
      enrich on almost all surfaces or interfaces. Surfactants that adsorb on
      the surface of a charged metal electrode influence the electrochem. double
      layer (Helmholtz\layer) between the metal surface and the soln. This area_.
      can be regarded as an elec. capacitor and thus a change of the elec.
      capacity of the electrode can be detd. by electrochem. methods like
      tensammetry. Tensammetry is a special voltammetric method that only
      measures the capacitive current, i.e., the capacity of the double layer.
      The adsorption behavior of different nonionic surfactants (alkyl
      ethoxylates, alkylphenyl ethoxylates, alkyl
     polyglucosides, sorbitan esters, and glycerol fatty acid partial
      esters) at charged metal electrodes was investigated tensammetrically.
      The results of this new method that allows kinetic measurements were
      correlated with those of other physicochem. methods like measurement of
     wetting time and dynamic surface tension. Tensammetry proved to be well
      suited for detg. dynamic physicochem. parameters of surfactant solns.
     Moreover, the method can easily be automated and thus it can simplify or
      even supplement other techniques.
 ST
      tensammetry nonionic surfactant charged metal electrode; adsorption
      kinetics nonionic surfactant voltammetry capacitive current
 ΙT
     Adsorption kinetics
      Wetting
         (adsorption kinetics of nonionic surfactants by tensammetry
         at charged metal electrodes)
 ΙT
      Polyoxyalkylenes, properties
      RL: PRP (Properties)
                                                      Jents 1
         (alkyl and alkylphenyl ethers; adsorption kinetics of nonionic
       surfactants by tensammetry at charged metal electrodes)
      Phenols, properties RL: PRP (Properties)
 IT
         (alkyl, ethoxylated; adsorption kinetics of nonionic
      surfactants by tensammetry at charged metal electrodes)
 TT
      Glycosides
      RL: PRP (Properties)
         (alkyl; adsorption kinetics of nonionic surfactants by
         tensammetry at charged metal electrodes)
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 IT
     Alcohols, properties
                                                     mated t
      RL: PRP (Properties)
                                                      ic mar
         (ethoxylated; adsorption kinetics of nonionic surfactants by
        tensammetry at charged metal electrodes)
                                                      June 1 I to 1
 IT
      Surfactants
                                                        of s
         (nonionic; adsorption kinetics of nonionic surfactants by 311
         tensammetry at charged metal electrodes)
 IT
      56-81-5D, Glycerol, fatty acid
     partial esters 9036-19-5, Marlophen 85
                                                 12441-09-7D, Sorbitan, esters
      25322-68-3D, alkyl and alkylphenyl ethers
      RL: PRP (Properties)
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at charged metal electrodes)
RE.CNT 12
RE
(1) Anon; Alkyl Polyglucosides 1996, P146
(2) Anon; personal communication from Balzer D
(3) Bartolome, S; Melliand Textilberichte 1950, V31, P489
(4) Gerlache, G; Talanta 1996, V43, P507
(5) Huls AG; Product data sheets Marlophen and Marlipal
(6) Jehring, H; Elektrosorptionsanalyse mit der Wechselstrompolarographie 1974,
(7) Jehring, H; Tenside 1969, V6, P251 HCAPLUS
(8) Kiraly, Z; Langmuir 1997, V13, P3308 HCAPLUS
(9) Kosswig, K; Die Tenside 1993, P148.
(10) Schwuger, M: Lehrbuch der Grenzflachenchemie 1996, P237
(11) Van Os, N; Physico-chemical properties on selected anionic, cationic and
    nonionic surfactants 1993, P203
(12) Weil, J; JAOCS 1979, V56, P873 HCAPLUS
     56-81-5D, Glycerol, fatty acid
    partial esters
    RL: PRP (Properties)
        (adsorption kinetics of nonionic surfactants by tensammetry
        at charged metal electrodes)
RN
     56-81-5 HCAPLUS
    1,2,3-Propanetriol (9CI) (CA INDEX NAME)
          deception kinetics of quaionary,
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        of paregrad metal abrocombas;
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HO-CH2-CH-CH2-OH
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    ANSWER 6 OF 42 HCAPLUS COPYRIGHT 2001 ACS
    1999:819288 HCAPLUS
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                                                and will be a like a
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     132:65775
     Polyols having lipophilic substituents and preparation thereof for
TI
    cold-processable thickeners for surfactant systems
    Polovsky, Stuart Barry; Barbeito, Carmella; Li, Wing Kin; Diantonio,
IN
    Edward F.; Kreeger, Russell Lowell
    Union Carbide Chemicals & Plastics Technology Corp., USA
PA
     PCT Int. Appl., 29 pp.
    CODEN: PIXXD2
DT
     Patent
LΑ
    English
IC
    ICM B01F017-00,
     46-4 (Surface Active Agents and
CC
    Detergents)
    Section cross-reference(s): 62
FAN.CNT 1
                   KIND DATE
    PATENT NO.
                                          APPLICATION NO.
                                          -----
    WO 9967017
                     A1 19991229
                                         WO 1999-US14072 19990622
        W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS,
            JP, KR, KZ, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO,
            RU, SG, SI, SK, TR, TT, UA, US, UZ, VN, ZA, AM, AZ, BY, KG, KZ,
            MD, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
            ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
            CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    AU 9947066
                      A1
                           20000110
                                        AU 1999-47066
                                                          19990622
PRAI US 1998-90324
                     19980623
    WO 1999-US14072 19990622
    Title polyols, e.g., alkoxylated lipophilic polyol compds., esp.
    ethoxylated, esterified Me glucosides, in which .gtoreq.5% of the polyol
    derivs. have about three moles of the lipophilic substituent per mol of
    polyol, can be dissolved in aq. solns. to provide liq. thickeners suitable
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(adsorption kinetics of nonionic surfactants by tensammetry

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for thickening surfactant-contg. compns., e.g., shampoos, dishwashing
liqs., coatings, etc., at cold processing temps. Thus, 192 g Glucam E 20
was dried 0.5 h at 140.degree. and .apprx.10 mm Hg with KOH, ethoxylated
with 630 g ethylene oxide at 140-145.degree. and 65 psig, and digested 1 h
to give hard, white, waxy PEG 100 Me glucoside, which (476 g) was melted,
stirred with 4.4 g oxalic acid for .apprx.0.5 h, dried, reacted with 101 g
Me oleate .apprx.5 h under vacuum, the pH adjusted to 6-7 with oxalic
acid, and dried at 110.degree. and <5 mm Hg, giving a brown waxy solid
having sapon. value 37.0 and hydroxy value 14.0, which was cooled to
80.degree. during addn of 566 g propylene glycol and 283 g H2O, and cooled
with stirring to give a light brown soln. having viscosity .apprx.2000 cP.
lipophilic ethoxylated polyol thickener surfactant; cold processable
surfactant thickener; glucoside ethoxylated oleated thickener surfactant
Fats and Glyceridic oils, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
ūsė); USES (Uses)
     (animal, reaction products with alkoxylated glucose derivs.;
     polyols having lipophilic substituents and prepn. thereof for
     cold-processable thickeners for surfactant systems)
Cosmetics
     (cleansing, liqs.; polyols having lipophilic substituents and prepn.
     thereof for cold-processable thickeners for surfactant
     systems)
Fatty acids, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses) rf the transfer of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of
 substituents and prepn. thereof for cold-processable thickeners for
 surfactant systems)
                                             1.40 -
Ethers, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses);
     (glycidy), reaction products with alkoxylated glucose derivs.; polyols
having lipophilic substituents and prepn. thereof for cold-processable
 thickeners for surfactant systems)
                                                                            āl Cu
Surfactants
Thickening agents
(polyols having lipophilic substituents and prepn. thereof for
     cold-processable thickeners for surfactant systems)
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
     (reaction products with alkoxylated glucose derivs.; polyols having
     lipophilic substituents and prepn. thereof for cold-processable
     thickeners for surfactant systems)
Epoxides.
Fatty acids, uses-
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
 (reaction products, with alkoxylated glucose derivs.; polyols having
  lipophilic substituents and prepn. thereof for cold-processable
     thickeners for surfactant systems)
Fats and Glyceridic oils, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
     (vegetable, reaction products, with alkoxylated glucose
   derivs ; polyols having lipophilic substituents and prepn. thereof for
     cold-processable thickeners for surfactant systems)
112-62-9DP, Methyl, oleate, reaction products with ethoxylated Me
glucosides 68239-42-9DP, Glucam E 20, ethoxylated, reaction products
with Me oleate
                          86893-19-8DP, Glucamate DOE 120, reaction products with
Me oleate
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM
(Technical or engineered material use); PREP (Preparation); USES (Uses)
     (polyols having lipophilic substituents and prepn. thereof for
     cold-processable thickeners for surfactant systems)
50-70-4D, Sorbitol, alkoxylated, reaction products with lipophilic compds.
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alkoxylated, reaction products with lipophilic compds. 34384-77-5D,
                                                                                                                                                                                                                                                                                         34625-23-5D,
                        alkoxylated, reaction products with lipophilic compds.
                       Ethyl glucoside, alkoxylated, reaction products with lipophilic compds.
                        66957-71-9D, alkoxylated, reaction products with lipophilic compds.
                       RL: MOA (Modifier or additive use); TEM (Technical or engineered material
                        use); USES (Uses)
                                      (polyols having lipophilic substituents and prepn. thereof for
                                      cold-processable thickeners for surfactant systems)
RE.CNT
RE
  (1) Kinney, J; US 4450090 A 1984 HCAPLUS
 (2) Smolin, M; US 4687843 A 1987 HCAPLUS
IT 56-81-5D, Glycerol, alkoxylated, reaction
                                                                                                                                                                                                           Appendig of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
                       products with lipophilic compds.
                       RL: MOA (Modifier or additive use); TEM (Technical or engineered material
                       use); USES (Uses)
                                      (polyols having lipophilic substituents and prepn. thereof for
                                      cold-processable thickeners for surfactant systems)
                        56-81-5 HCAPLUS
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                       1,2,3-Propanetriol (9CI) (CA INDEX NAME)
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                       Softening finish compositions with good biodegradability
                      Kato, Toru; Ohtawa, Yasunori; Kaneko, Yohei
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                       Kao Corp., Japan
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                       Jpn. Kokai Tokkyo Koho, 6 pp.
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                       CODEN: JKXXAF
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                        46-5 (Surface Active Agents and
                       Detergents)
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                       Section cross-reference(s): 40
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                       JP 11350348
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OS
                       MARPAT 132:51492
AΒ
                       Title compns. comprise (A) nonionic compds. having .gtoreq.1 C5-36 alkyl
                       or alkenyl group and .gtoreq.1 ester bond and (B) amino compds. having
                      .gtoreq.1 C5-36 alkyl or alkenyl group, which may contain ester bond,
                       amide bond, or ether bond, or salts thereof. Thus, a cotton towel was
                       washed and treated with a compn. comprising 4.5% reaction product of
                       ethoxylated pentaerythritol and hardened beef tallow fatty acid, 0.5%
                       N-(3-hardened beef tallow alkanoylaminopropyl)-N, N-dimethylamine, and HCl
                       giving good softness.
                       biodegradable softening finish compn nonionic compd; amino compd cotton
                       towel softener; ethoxylated pentaerythritol hardened beef tallow fatty
                       acid reaction product; methylamine beef tallow deriv hydrochloric acid
                       salt softener compn
IT
                       Biodegradable materials
                       Fabric softeners
                                      (biodegradable fabric softener compns. comprising nonionic compds. and
                                      amino compds.)
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50-99-7D, Glucose, alkoxylated, reaction products with lipophilic compds.

products with lipophilic compds. 5391-18-4D, Butyl glucoside,

56-81-5D, Glycerol, alkoxylated, reaction

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Amines, uses
        RL: TEM (Technical or engineered material use); USES (Uses)
              (biodegradable fabric softener compns. comprising nonionic compds. and
             amino compds.)
ΙT
        Surfactants
              (biodegradable; biodegradable fabric softener compns. comprising
             nonionic compds. and amino compds.)
IT
        Textiles
              (cotton, towels; biodegradable fabric softener compns. comprising
             nonionic compds. and amino compds.)
IT
        Acrylic fibers, miscellaneous
        RL: MSC (Miscellaneous)
             (fabrics, jerseys; biodegradable fabric softener compns. comprising
             nonionic compds. and amino compds.)
        Polyoxyalkylenes, uses with the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of the latter of th
              (hardened beef tallow derives.; biodegradable fabric softener compns.
             comprising nonionic compds. and amino compds.)
ΙT
        Surfactants
              (nonionic; biodegradable fabric softener compns. comprising nonionic
             compds. and amino compds.)
IT
        Polyoxyalkylenes, uses
        RL: TEM (Technical or engineered material use); USES (Uses)
             (reaction products with hardened beef tallows; biodegradable fabric
             softener compns. comprising honionic compds. and amino compds.)
ĮΤ
        Tallow
        RL: TEM (Technical or engineered material use); USES (Uses)
              (reaction products, hardened; biodegradable fabric softener compns.
             comprising nonionic compds. and amino compds.)
IT
        Amines, uses
        RL: TEM (Technical or engineered material use); USES (Uses)
             (salts; biodegradable fabric softener compns. comprising nonionic
             compds. and amino compds.)
IT
        Biodegradable materials
             (surfactants; biodegradable fabric softener compns.
             comprising nonionic compds. and amino compds.)
İT
        Fatty acids, uses
        RL: TEM (Technical or engineered material use); USES (Uses)
              (tallow, reaction products; biodegradable fabric softener compns.
             comprising nonionic compds. and amino compds.)
IT
        Household furnishings
                                                                                          USES
              (towels; biodegradable fabric softener compns. f_{\text{comprising nonionic}}
             compds. and amino compds.)
        56-81-5D, Glycerol, reaction products with hardened beef
ΙT
        tallow fatty acids, ethoxylated
        25322-68-3D, Polyethylene glycol, reaction products with hardened beef
        tallows 42503-45-7D, Pentaerythritol ethoxylate, reaction products with
        hardened beef tallow fatty acids 58546-86-4D, USES
        1,3-Propanediamine hydrochloride, hardened beef tallow alkyl derives:
        65086-96-6D, hardened beef tallow alkyl derives. _{\rm 3LG}111413-46-8C
        176158-74-0D, hardened beef tallow alkanoyl derives. 252850-69-4D, hardened beef tallow alkanoyl derives. 252850-70-7 252850-71-8D,
        reaction products with hardened beef tallow fatty, acids
        252850-72-9D, hardened beef tallow alkanoyl derives.
        RL: TEM (Technical or engineered material use); USES (Uses)
              (biodegradable fabric softener compns. comprising nonionic compds. and
             amino compds.)
                                                                                            CORF.
        56-81-5D, Glycerol, reaction products with hardened beef
        tallow fatty acids, ethoxylated
        RL: TEM (Technical or engineered material use); USES (Uses)
              (biodegradable fabric softener compns. comprising nonionic compds. and
             amino compds.)
RN
        56-81-5 HCAPLUS
                                                                                         7868 : .
        1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
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ANSWER 8 OF 42 HCAPLUS COPYRIGHT 2001 ACS

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AN
     1999:733026 HCAPLUS
DN
     131:338649
ΤI
     Acaricidal carpet cleaning composition comprising esterified and
     non-esterified ethoxylated glycerol mixture
IN
     Zocchi, Germaine; Kong, Betty; Mondin, Myriam; Mahieu, Marianne
PA
     Colgate-Palmolive Co., USA
SO
     U.S., 9 pp., Cont.-in-part of U.S. Ser. No. 938,685.
     CODEN: USXXAM
                         التباطريا والإيل استبست بسيع ويستستيس
DT
     Patent
LА
     English
IC
     ICM C11D003-48
     ICS C11D003-50; C11D003-60
NCL
     510280000
     46-6 (Surface Active Agents and
     Detergents)
FAN.CNT 24
                                        APPLICATION NO.
     PATENT NO.
                      Α
PI
     US 5985814
                            19991116
                                            US 1998-109656
                                                             19980702
                    Α
     ZA 9405565
                            19960129
                                         ZA 1994-5565
                                                             19940727
    US 5610130
                                           US 1996-650211
                       Α
                            19970311
                                                             19960520
    US 5942482 A
                                           US 1997-938685
                            19990824
                                                             19970926
                      19930804
PRAI US 1993-102314
     US 1993-155317
                      19931122
                    19940203<sub>20405171</sub>
     US 1994 12 19950900 US 19950900 19950900 19960212
     US 1994-192118
21.1
     US 1996-671471 11:19960628
     US 1997-938685 19970926
     US 1994-228538 19940415 N.
                                                on the late the
     US 1995-381606
                      19950130
OS
     MARPAT 131:338649
AB
     An improvement is described in the carpet compns. which is esp. effective
     in killing dust mites, contains an anionic detergent, an
     ethoxylated glycerol type compd., a hydrocarbon
     ingredient, at least one cosurfactant, an acaricidal agent, and water.
     The carpet cleaning formulation contained deionized water 80.93, C14-17
     sodium paraffin sulfonate 3.92, esterified polyethoxy ether 1.15,
     magnesium sulfate heptahydrate 1.10, diethylene glycol monobutyl ether
     2.00, stripped coconut oil fatty acids 0.37, 38% caustic soda 0.030,
     N-silicate (1:3.26) 0.20, perfume 0.21, hydrocarbon propellant mixt. 10.00
     and benzyl benzoate 0.09%.
ST
     acaricidal carpet cleaning ethoxylated glycerol ....
IT
     Sulfonic acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (C13-17-alkanesulfonic, sodium salts; acaricidal carpet cleaning compn.
        comprising esterified and nonesterified ethoxylated 1 1 6026
      glycerol mixt.) ,
IT
     Aldehydes, uses
     RL: BAC (Biological activity or effector, except adverse); TEM (Technical
     or engineered material use); BIOL (Biological study); USES (Uses)
        (C6-14; acaricidal carpet cleaning compn. comprising esterified and
        nonesterified ethoxylated glycerol mixt.)
IT
     Fatty acids, uses;
     RL: MOA (Modifier or additive use); USES (Uses)
        (C8-22; acaricidal carpet cleaning compn. comprising esterified and
        nonesterified ethoxylated glycerol mixt.)
IT
     Acaricides
                    1.5
                                                    and William and Spirit
     Carpets
                                  . . . ;
                    .1
     Detergents
                    . . .
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                    Hir Timothy Saunders EIC-LAW Lib. 10 308-4139 13
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Surfactants
         (acaricidal carpet cleaning compn. comprising esterified and
         nonesterified ethoxylated glycerol mixt.)
 IT
      RL: TEM (Technical or engineered material use); USES (Uses)
         (acaricidal carpet cleaning compn. comprising esterified and
         nonesterified ethoxylated glycerol mixt.)
 IT
      Surfactants
         (anionic; acaricidal carpet cleaning compn. comprising esterified and
         nonesterified ethoxylated glycerol mixt.)
IT '
     Ethers, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
         (glycol; acaricidal carpet cleaning compn. comprising esterified and
        nonesterified ethoxylated glycerol mixt.)
      29387-86-8, Propylene glycol monobutyl ether
IT
      RL: TEM (Technical or engineered material use); USES (Uses)
         (7acaricidal carpet cleaning compn. comprising esterified and
         nonesterified ethoxylated glycerol mixt.)
      94-47-3, Phenyl ethyl benzoate 99-49-0, Carvone 100-52-7,
 IT
     Benzaldehyde, uses 118-55-8, Phenyl salicylate 119-36-8, Methyl
      salicylate 120-51-4, Benzyl benzoate 5392-40-5, Citral
     RL: BAC (Biological activity or effector, except adverse); TEM (Technical
      or engineered material use); BIOL (Biological study); USES (Uses)
         (acaricidal carpet cleaning compn. comprising esterified and
      - nonesterified ethoxylated glycerol mixt.)
 ΙT
      98-11-3D, Benzenesulfonic acid, C9-15 alkyl derivs., sodium salts
      111-76-2, Ethylene glycol monobutyl ether 112-34-5, Diethylene glycol
     monobutyl ether, 143-22-6, Triethylene glycol monobutyl ether
     1309-48-4, Magnesium oxide (MgO), uses 1320-67-8, Propylene glycol
     monomethyl ether 7487-88-9, Sulfuric acid magnesium salt, (1:1), uses
      7786-30-3, Magnesium chloride (MgCl2), uses 10034-99-8, Magnesium
      sulfate heptahydrate 25498-49-1, TriPropylene glycol monomethyl ether
      31694-55-0 34590-94-8, DiPropylene glycol monomethyl ether
      35884-42-5, DiPropylene glycol monobutyl ether 55934-93-5, TriPropylene
      glycol monobutyl ether 80763-10-6, Propylene glycol mono-tert-butyl
      ether
     RL: TEM (Technical or engineered material use); USES (Uses)
         (acaricidal carpet cleaning compn. comprising esterified and
         nonesterified ethoxylated glycerol mixt.)
 RE.CNT 13
 RE
                                                     1182B
 (1) Anon; WO 89/12673 1989 HCAPLUS.
                                                    a grader ring of a
 (2) Bischoff; US 4666940 1987 HCAPLUS
 (3) Chasin; US 4313847 1982 HCAPLUS
 (4) Gauthier-Fournier; US 5529713 1996 HCAPLUS
 (5) Mattox; US 4954338 1990 HCAPLUS
 (6) Naik; US 4737520 1988 HCAPLUS
(7) Nonn; US 4564632 1986 HCAPLUS
(8) Pujol; US 5403509 1995 HCAPLUS
 (9) Steltenkamp; US 4804683 1989 HCAPLUS
 (10) Steltenkamp; US. 5258408 1993 HCAPLUS
 (11) Thomas: US 5610130 1997 HCAPLUS
 (12) Zocchi; US 5095066 1992 HCAPLUS
                                                       rohan
 (13) Zocchi; US 5719114 1998 HCAPLUS
                                                   · ·8, 1
      31694-55-0
     RL: TEM (Technical or engineered material use); USES (Uses)
         (acaricidal carpet cleaning compn. comprising esterified and
         nonesterified ethoxylated glycerol mixt.)
 RN
      31694-55-0 HCAPLUS
     Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.';-1,2,3-
     propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
                    +1.4
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Propellants (sprays and foams)

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ANSWER 9 OF 42 HCAPLUS COPYRIGHT 2001 ACS

L40

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1999:549346 HCAPLUS
ΑN
DN
     131:186575
TI
     Stable rinse-cycle fabric softener composition with glycerol monostearate
     co-softener
     Pescador, Jose Javier Tovar; Hernandez, Salvador Jantes; Jacques, Alain
IN
PΑ
     Colgate-Palmolive Company, USA
SO
     PCT Int. Appl., 18 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
IC .
     ICM C11D003-00
     ICS C11D001-835
CC
     46-5 (Surface Active Agents and
     Detergents)
FAN.CNT 2
     PATENT NO.
                      KIND
                             DATE
                                            APPLICATION NO.
                                                              DATE
                             19990826
                                            WO 1999-US3378
PI
     WO 9942547
                       A1
                                                              19990217
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
             MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
             TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, GLU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                             20000502
     US 6057285
                                            US 1999-237528
                                                              19990127
                       Α
     AU 1999-27692 19990217
                                            EP 1999-908200
     EP 975726
                       A1
                             20000202
                                                              19990217
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LJ. NL, SE, PT, IE, FI, RO
     BR 9904829
                     , A
                             20000523
                                            BR 1999-4829
                                                             19990217
                      19980219
PRAI US 1998-26194
     US 1998-70453
                      19980430
     US 1999-237528
                      19990127
     WO 1999-US3378
                      19990217
os
     MARPAT 131:186575
ÀΒ
     Stable and pourable title softeners contain a quaternary diester fabric
     softener, e.g., Me-quaternized triethanolamine di(tallow ester) quaternary
     ammonium salt in combination with glycerol monostearate and a
     fatty alc. ethoxylate nonionic surfactant as the emulsifier
     having an HLB value >7.5. For example, fabric softening emulsion contq.
     diester quat [RCO2CH2CH2N+Me(CH2CH2OH)CH2CH2O2CR]MeSO4- (R = tallow alkyl)
     7.33, glycerol monostearate 1.38, Synperonic A-20.0.6,
     Dequest-2000 0.1, dye 0.002, CaCl2 0.05-0.5 and perfume 0.2-0.8% in H2O
     (prepn. given) had viscosity 84 cP after making and 250 cP after 6 wk, at
     43.degree., vs. 107 and 426 cP, resp., for similar softener stabilized
     with 0.60% ethoxylated (19 EO) C16-18 fatty alc. semulsifier
     instead of Synperonic A-20. (4) fabric softener triethanolamine esterquat viscosity ethoxylated fattygalc
ST
     emulsifier; ethanolamine tallow diester quaternized salt fabric softener
     viscosity; glycerol monostearate cosoftener triethanolamine esterquat
     fabric softener
                                                       7528
                                                                   : 27
IT
     Alcohols, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (C13-15, ethoxylated, surfactants, Synperonic A 20;
        stable rinse-cycle fabric softener compn. with glycerol
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monostearate co-softener)
IТ
     Quaternary ammonium compounds, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (N,N,N-tris(hydroxyethyl)-N-Me, di(tallow esters), methosulfates;
        stable rinse-cycle fabric softener compn. with qlycerol
        monostearate co-softener)
IT
     Fabric softeners
        (N,'N, N-tris(hydroxyethyl)-N-methylammonium salts, di(tallow esters)',
        methosulfates; stable rinse-cycle fabric softener compn. with
      glycerol monostearate co-softener)
IT
     Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
       (esters, ditallow esters with triethanolamine, Me-quaternized,
        methosulfates; stable rinse-cycle fabric softener compn. with
      glycerol monostearate co-softener)
IT
     Polyoxyalkylenes, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (monoethers with C13-15 alcs., surfactants; stable
        rinse-cycle fabric softener compn. with glycerol monostearate
        co-softener)
ΙT
     Surfactants
        (nonionic, ethoxylated fatty alcs.; stable rinse-cycle fabric
        softener compn. with glycerol monostearate co-softener)
IT
     31566-31-1, Glycerol monostearate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (stable rinse-cycle fabric softener compn. with glycerol
     monostearate co-softener), 25322-68-3D, Polyethylene glycol, monoethers with C13-15 alcs.
ΪŤ
     RL: TEM (Technical or engineered material use); USES (Uses)
        (surfactants; stable rinse-cycle fabric softener, compn. with
      glycerol monostearate co-softener)
RE.CNT 4
(1) Chang, N; US 5066414 A 1991 HCAPLUS
                                                   or, Its, did al (W )
                                                    often ar communitation
(2) Henkel KGAA; DE 19623764 A 1997 HCAPLUS
(3) Hoechst A; EP 0691396 A 1996 HCAPLUS
(4) Mastrull, J; US 5747108 A 1998, ...
                                                       USIAS (
     31566-31-1, Glycerol monostearate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (stable rinse-cycle fabric softener compn. with glycerol
        monostearate co-softener)
     31566-31-1 HCAPLUS
RN
     Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX
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        OH-
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HO-CH_2-CH-CH_2-OH
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ΑN
     1998:414717 HCAPLUS
DN
     129:69158
     Light-duty liquid cleaning compositions comprising partially esterified
TI
     polyhydric alcohol solubilizing agents
     Adamy, Steven; Bedi, Sat; Mehreteab, Ammanuel; Thomas, Barbara
IN
PA
     Colgate-Palmolive Co., USA
so
     U.S., 6 pp. Cont.-in-part of U.S. 5,476,614.
     CODEN: USXXAM
DT
     Patent
LΑ
     English
IC.
     ICM C11D001-83
     ICS C11D001-94
NCL
     510235000
     46-6 (Surface Active Agents and
     Detergents)
FAN.CNT 3
     PATENT NO.
                       KIND
                             DATE
                                             APPLICATION NO.
                                                               DATE
                       ____
ΡI
     US 5767050
                        Α
                             19980616
                                             US 1995-540636
                                                               19951011
    SUS 5476614
                        Α
                             19951219
                                             US 1995-373811
                                                               19950117
                                             WO 1996-US157
     WO 9622347
                        A1
                             19960725
                                                               19960116
            AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
             GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,
     TM, TR. MC. SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
944
277
            NE, SN, TD,
                         TG
                             19960807
                    Lc. Al.
                                            AU 1996-46947
     AU 9646947
                                                               19960116
PRAI US 1995-373811 p. 19950117
     US 1995-540636 , 19951011
11 ...
     WO 1996-US157
                     , 19960116
ÓS
     MARPAT 129:69158
     A high-foaming, light-duty, liq. detergents with good mildness to the
AΒ
     human skin are based on ethoxylated C8-18 alkyl ether sulfate anionic
     surfactants and contain ethoxylated, partially esterified polyols as
     biodegradable solubilizing agents.
     liq anionic detergent biodegradable solubilizing agent; polyol ethoxylated
ST
     ester solubilizing agent detergent
IT
     Coco fatty acids
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
        (esters with polyethylene glycol ether with glycerol (3:1),
        Levenol F200; light-duty high-foaming liq. cleaning compns. contg.
        biodegradable partially esterified ethoxylated polyhydric
        alc. solubilizing agents)
IT
     Tallow fatty acids
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
        (esters with polyethylene glycol ether with glycerol (3:1),
        Levenol V-501/2; light-duty high-foaming liq. cleaning compns. contg.
        biodegradable partially esterified ethoxylated polyhydric
        alc. solubilizing agents)
     Polyhydric alcohols
IT
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
        (ethoxylated, fatty esters; light-duty high-foaming liq. cleaning
        compns. contg. biodegradable partially esterified ethoxylated
        polyhydric alc. solubilizing agents)
     Polyoxyalkylenes, uses
IT
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
        (glycerol ethers, fatty acid esters;
        light-duty high-foaming liq. cleaning compns. contg. biodegradable
        partially esterified ethoxylated polyhydric alc. solubilizing
        agents)
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ANSWER 10 OF 42 HCAPLUS COPYRIGHT 2001 ACS

L40

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IT.
     Biodegradable materials
     Liquid detergents
     Solubilizers
        (light-duty high-foaming liq. cleaning compns. contg. biodegradable
        partially esterified ethoxylated polyhydric alc. solubilizing agents)
IT
     Ethoxylated alcohols
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
        (polyhydric, fatty esters; light-duty high-foaming lig. cleaning
        compns. contg. biodegradable partially esterified ethoxylated
        polyhydric alc. solubilizing agents)
IT
     25322-68-3D, glycerol ethers, fatty acid
     esters 31694-55-0D, fatty acid esters
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
        (light-duty high-foaming liq. cleaning compns. contg. biodegradable
        partially esterified ethoxylated polyhydric alc. solubilizing
     9004-82-4
IT .
     RL: TEM (Technical or engineered material use); USES (Uses)
        (light-duty high-foaming liq. cleaning compns. contg. biodegradable
        partially esterified ethoxylated polyhydric alc. solubilizing agents)
IT
     31694-55-0D, fatty acid esters
     RL: MOA (Modifier or additive use); TEM (Technical or engineered material
     use); USES (Uses)
     (light-duty high-foaming liq. cleaning compns. contg. biodegradable
. .
       partially esterified ethoxylated polyhydric alc. solubilizing agents)
     31694-55-0 HCAPLUS
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
RN
CN
     propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
      Park Frud of Suhola
      The second standard of the
                               180 ju
                                                  अध्यक्ष अस्ति हो।
                                                       OH,
    ANSWER 11 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
     1998:379207 HCAPLUS
AN
DN
     Procedure for separation of glycerin from reaction mixtures containing
TI
     glycerin and fatty acid amides
     Oftring, Alfred; Oetter, Guenter; Baur, Richard; Borzyk, Oliver; Burkhart,
TN
     Bernd; Ott, Christian; Aus dem Kahmen, Martin
PA
     BASF A.-G., Germany
     Ger. Offen., 6 pp.
SO
                                 114.
     CODEN: GWXXBX ...
DT
     Patent
     German
LA
                    it in the st
     ICM C07C231-24 (C07C233-09; C07C233-18; C07C231-02
IC
ICA
     C11D001-66; B01F017-46; B01F017-22; C07C233-14
     46-3 (Surface Active Agents and
    Detergents)
FAN.CNT 2
                      KIND
                           DATE
                                                            DATE
ΡI
    DE 19650107
                      A1
                            19980604
                                           DE 1996-19650107 19961203
    WO 9824758
                      A2
                            19980611
                                           WO 1997-EP6750
                                                            19971202
                     A3
    WO 9824758
                            19980820
        W: BR, CN, ID, JP, KR, US
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
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19991006
                                           EP 1997-952862
    EP 946498
                       A2
                                                             19971202
        R: DE, FR, GB, IT
    US 6034257
                       Α
                            20000307
                                           US 1999-308669
                                                             19990603
PRAI DE 1996-19650107
                       19961203
     DE 1996-19650151 19961203
     WO 1997-EP6750
                      19971202
     The title reaction mixts., which are commonly encountered in the
     large-scale aminolysis of glycerides, are acidified with aq. acids to pH
     1-7 and the phases sepd. into a glycerol-contg. ag. phase and fatty
     amides-contg. org. phase. For example, a mixt. of 348.9 g MeNHCH2CH2OH
     and 27.0 g NaOMe (30% in MeOH) was treated over 80 min at 80.degree. with
     1305.0 g rapeseed oil, the mixt. was stirred for 15 min, dild. with 1000
     mL H2O, heating was discontinued and the whole acidified with HCl to pH
     3-4 and the phases sepd. The org. phase was washed twice with 750 mL H20
    and dewatered by distn. in vacuo to give rapeseed oil N-methylethanolamide as a viscous, brown oil. This (426.5 g) was combined with 9.0 g NaOMe,
     dried for 2 h at 120.degree./16 mbar and ethoxylated at that temp. with
     132.0 g ethylene oxide (EO) (max pressure 3.5 bar), cooled to 80.degree.
     and evacuated to give viscous, brown oil free from EO, having OH no. 95 mg
    KOH/g and contg. 3.3% polyethylene glycol.
     glycerin sepn fatty amide manuf; glyceride amidation glycerol sepn;
     rapeseed oil amidation methylethanolamine glycerol sepn; ethoxylation
     rapeseed oil N methylethanolamide
     Polyoxyalkylenes; preparation
                                          حينوا فالقندي بيجابات
    RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical
    process); PREP (Preparation); PROC (Process) = 0.32882 1.9971.02
        (ethers with fatty amides; procedure for sepn. of glycerin from
     reaction mixts. contg. glycerin and fatty acid
    amides) (2013) 17
    Coco amides
    RL: IMF (Industrial manufacture); PREP (Preparation)
     (ethoxylated; procedure for sepn. of glycerin from the the
     reaction mixts contg. glycerin and fatty contg. as ac-
      acid amides)
                                                       1. 14 - 5 - 1 - 1 - 1
     Polyoxyalkylenes, preparation
    RL: IMF (Industrial manufacture); PREP (Preparation)
        (fatty amido group-terminated, rapeseed oil, ethoxylated;
       procedure for sepn. of glycerin from reaction mixts. contg._{\rm h}
     glycerin and fatty acid amides)
                                                    red term of i
    Amides, preparation
    RL: IMF (Industrial manufacture); PREP (Preparation)
                                                      coji // so, de
                                                                         11-11-16
                                                              l te.
        (fatty, alkoxylated, rapeseed oil, ethoxylated; ethoxylated;
       procedure for sepn. of glycerin from reaction mixts. contg.8
                                                                         1
      glycerin and fatty acid amides)
    Nonionic surfactants
        (procedure for sepn. of glycerin from fatty acid
        amides manufd. for use as)
                                                      di ategan i ahataya
    Glycerides, progesses
    RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC
     (Process)
        (rape-oil, aminolysis with amines; procedure for sepn. of glycerin from
        reaction mixts. contg. glycerin and fatty acid of
        amides)
                 . c:.
    Rape oil
    RL: IMF (Industrial manufacture); PREP (Preparation)
        (reaction products, with amines, ethoxylated; procedure for
        sepn. of glycerin from reaction mixts. contg. f_{1300}
     glycerin and fatty acid amides)
    124-41-4, Sodium methoxide
    RL: CAT (Catalyst use); USES (Uses)
        (amidation and ethoxylation catalyst; procedure for sepn. of
     glycerin from reaction mixts. Contg. glycerin and h_{\mathcal{L}_{(0,1)}}
     fatty acid amides)
    56-81-5, Glycerol, processes
    RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical
    process); FORM (Formation, nonpreparative); PROC (Process)
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(procedure for sepn. of glycerin from reaction mixts. contg. glycerin

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and fatty acid amides)
          74-89-5DP, Methylamine, amides with rapeseed oil fatty
     IT
                              109-83-1DP, N-Methylethanolamine,
          acids, ethoxylated
          amides with rapeseed oil fatty acids,
                       111-75-1DP, N-Butylethanolamine, amides with
          ethoxylated
          rapeseed oil fatty acids, ethoxylated
          25322-68-3DP, Polyethylene glycol, ethers with fatty amides
          RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical
          process); PREP (Preparation); PROC (Process)
             (procedure for sepn. of glycerin from reaction mixts. contg.
           glycerin and fatty acid amides)
     IT
          56-81-5, Glycerol, processes
          RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical
          process); FORM (Formation, nonpreparative); PROC (Process)
             (procedure for sepn. of glycerin from reaction mixts. contg. glycerin
and fatty acid amides)
          56-81-5 HCAPLUS
     RN
     CN
          1,2,3-Propanetriol (9CI) (CA INDEX NAME)
             OH
     HO-CH_2-CH-CH_2-OH
          ANSWER 12 OF 42 HCAPLUS, COPYRIGHT 2001 ACS 11 fetty
     L40
          1998:210838 HCAPLUS
     AN
     DN
          Microemulsion or liquid-crystal all-purpose liquid disinfecting and
     TI
          cleaning compositions
          Blanvalet, Claude; Mondin, Myriam; Broze, Guy; Thomas, Barbara;
     IN
          Lambremont, Yves
Colgate-Palmolive Co., USA
     PA
     SO
          PCT Int. Appl., 40 pp.
          CODEN: PIXXD2
     DT
          Patent.
          English
     LΑ
                                   ortu is ÷di
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                         ion.
          ICM C11D017-00
     IC
          ics c11D003-20; c11D001-83; c11D001-14; c11D001-74;
     CC
          46-6 (Surface Active Agents and
          Detergents)
     FAN.CNT 24
          PATENT NO.
                           KIND
                                 DATE
                                                APPLICATION NO.
                                 19980402
                                                WO 1997-US17401
                                                                19970926
                            A1
                  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
                  DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,
                  KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
                  PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
                  UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
              RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
                  GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
                  GN, ML, MR, NE, SN, TD, TG
          US 5861367
                           ,A
                                 19990119
                                                US 1996-722514
                                                                 19960927
          AU 9745991 ...
                         , , , A1
                                 19980417
                                                AU 1997-45991
                                                                 19970926
                         B2
                                 20000831
                                                EP 1997-944515
                                 19990811
                                                                 19970926
                            A1
                  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI, RO
                         19960927
     PRAI US 1996-722514
          US 1993-102314
                           19930804
          US 1993-155317
                           19931122
          US 1994-192118
                           19940203
          US 1994-336936
                           19941115
          US 1996-699299 19960819
          WO 1997-US17401 19970926
          Liq.-cryst, or microemulsion compns. that are more environmentally
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1747) SA, co

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friendly and are esp. effective in the removal of oily and greasy soil
          contain anionic surfactant 0.1-20, glycerol alkoxylates
          and(or) their carboxylate esters 0.1-20, HCO(CH2)nCHO 0-10, water-insol.
          hydrocarbon or perfume 0.1-10, and cosurfactant 0.1-50%, with the balance
         being water. These compns. are effective in the absence of polyphosphate
          or other (in)org. builder salts and grease-removing solvents.
    ST
          glycerol alkoxylate microemulsion detergent
         disinfectant; phosphate free microemulsion detergent disinfectant; anionic
          surfactant microemulsion detergent disinfectant; hydrocarbon microemulsion
          detergent grease removing; perfume microemulsion detergent grease
          removing; aliph dialdehyde microemulsion detergent disinfectant; liq cryst.
          disinfecting detergent; carboxylate glycerol alkoxylate
         microemulsion detergent
    IT
         Alkanesulfonates
         RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (C13-17, sodium salts; microemulsion or liq.-cryst. all-purpose liq.
15.0000 中国人为65000 中央650
             disinfecting and cleaning compns.)
    IT
         Aliphatic aldehydes
         RL: TEM (Technical or engineered material use); USES (Uses)
             (di-; microemulsion or liq.-cryst. all-purpose liq. disinfecting and
             cleaning compns.)
    IT
         Coco fatty acids
         RL: PRP (Properties); TEM (Technical or engineered material use); USES
          (Uses)
         (esters with polyethylene glycol ether with glycerol (3:1)
          Levenol F-200; microemulsion or liq.-cryst. all-purpose liq.
          disinfecting and cleaning compns.)
    IT
         Carboxylic acids, uses
         RL: PRP (Properties); TEM (Technical or engineered material use); USES
         (Uses)
             (esters, with alkoxylated glycerol; microemulsion
    h^{\Omega}
            or liq.-cryst. all-purpose liq. disinfecting and cleaning compns.)
    IT
         Polyoxyalkylenes, uses
         RL: PRP (Properties); TEM (Technical or engineered material use); USES
          (Uses)
             (ethers, with glycerol; microemulsion or liq.-cryst.
            all-purpose liq. disinfecting and cleaning compns.)
    IT
         Anionic surfactants
         Disinfectants
                                       reducation of a con-
         Liquid crystals
         Liquid detergents
                                      3 3 36 1
                                                         1 CIVST.
                                                                   of Landau
         Microemulsions
         Perfumes
             (microemulsion or liq.-cryst. all-purpose liq.sdisinfecting and
            cleaning compns.)
         Hydrocarbons, uses
         Terpenes, uses
         RL: PRP (Properties); TEM (Technical or engineered material use); USES
             (microemulsion or liq.-cryst. all-purpose liq. disinfecting and
            cleaning compns.)
    IT
         31694-55-0D, Polyethylene glycol glycerol ether, esters
         with coco fatty acids
         RL: PRP (Properties); TEM (Technical or engineered material use); USES
             (microemulsion or liq.-cryst, all-purpose liq, disinfecting and
            cleaning compns.)
         31694-55-0D, Polyethylene glycol glycerol ether, esters
    IT
         with coco fatty acids
         RL: PRP (Properties); TEM (Technical or engineered material use); USES
             (microemulsion or liq.-cryst. all-purpose liq. disinfecting and
            cleaning compns.)
    RN
         31694-55-0 HCAPLUS
    CN
         Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
         propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
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ANSWER 13" OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
 1998:204302 HCAPLUS
ΑN
 128:231902
DN
 Microemulsion liquid crystal and cleaning compositions comprising
ŤΙ
 esterified and non-esterified ethoxylated glycerol
 mixture and sulfoxy anionic surfactant
 Mondin, Myriam; Loth, Myriam; Broze, Guy; Mehreteab, Ammanuel; Thomas, Barbara; Adamy, Steven; Bala, Frank, Jr.
IN
PΑ
 Colgate-Palmolive Co., USA
 U.S., 17 pp. Cont.-in-part of U.S. 5,593,958.
SO
 CODEN: USXXAM
DΤ
 Patent
ĽΑ
 English
 ICM C11D017-00
IC
 ICS C11D001-74; C11D001-83
 510417000
NCL
CC
 46-6 (Surface Active Agents and
 200---
 Detergents)
FAN.CNT 24
 KIND DATE
 APPLICATION NO.
 PATENT NO.
 DATE
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 US 57312814
 A 19980324
 US 1996-714906
 19960917
 ZA 9405565
 A
 19960129
 ZA 1994-5565
 19940727
 US 5593958
 A
 19970114
 US 1995-385212
 19950205
 US 5610130
 Α
 19970311
 US 1996-650211
 19960520
PRAI US 1993-102314,
 19930804
 US. 1993-155317
 19931122
 ÜS 1994-192118
 19940203
 US 1995-385212
 19950205
 US 1994-228538
 19940415
 19950130
 US 1995-381606
 MARPAT 128:231902
OS
 The title compns. effective in the removal of oily and greasy soil contain
AB
 an anionic detergent, an ethoxylated glycerol type
 compd., a hydrocarbon ingredient, at least one cosurfactant, and water
 which comprises the use of a water-insol. odoriferous perfume as the
 essential hydrocarbon ingredient in a proportion sufficient to form a dil.
 5/w microemulsion compn. contg. 1-20% anionic surfactants, 0.1-50%
 cosurfactant(s), 0.1-20% ethoxylated glycerol compds.,
 0.4-10% perfume and the balance being water. A degreasing compn.
 comprised Na C13-17 paraffinsulfonate 4.7, Levenol F-200 2.3, diethylene
 glycol monobutyl ether 4, fatty acid 0.75, MgSO4.7H2O 2.2, perfume (contg.
 25% terpenes) 0.8 and water to 100%.
ST
 microemulsion liq crystal cleaning compn; alkoxylated
 glycerin microemulsion degreasing compn
IT
 Ethoxylated alcohols
 RL: TEM (Technical or engineered material use); USES (Uses)
 (C14-15; microemulsion liq. crystal and cleaning compns. comprising
 esterified and non-esterified ethoxylated glycerol
 mixt. and sulfoxy anionic surfactant)
IT
 Carboxylic acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dicarboxylic; microemulsion liq. crystal and cleaning compns.
 comprising esterified and non-esterified ethoxylated
```

glycerol mixt. and sulfoxy anionic surfactant)

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Coco fatty acids
 RL: TEM (Technical or engineered material use); USES (Uses)
 (esters with polyethylene glycol ether with glycerol (3:1),
 Levenol F 200; microemulsion liq. crystal and cleaning compns.
 comprising esterified and non-esterified ethoxylated
 qlycerol mixt. and sulfoxy anionic surfactant)
IT
 Tallow fatty acids
 RL: TEM (Technical or engineered material use); USES (Uses)
 (esters with polyethylene glycol ether with glycerol (3:1),
 Levenol V 501/2; microemulsion liq. crystal and cleaning compns.
 comprising esterified and non-esterified ethoxylated
 glycerol mixt. and sulfoxy anionic surfactant)
 Anionic surfactants
 Degreasing agents
 Detergents
 Liquid crystals
 (microemulsion liq. crystal and cleaning compns. comprising esterified
 and non-esterified ethoxylated glycerol mixt. and
 sulfoxy anionic surfactant)
IT
 Alkoxy alcohols
 Carboxylic acids, uses
 Polyoxyalkylenes, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (microemulsion liq. crystal and cleaning compns. comprising esterified
 and non-esterified ethoxylated glycerol mixt. and
 .sulfoxy anionic surfactant)
ΪT
 Tallow fatty acids of engineered material use); USES (Uses)
 (soap; microemulsion liq. crystal and cleaning compns.
 comprising esterified and non-esterified ethoxylated
 glycerol mixt. and sulfoxy anionic surfactant)
 71-41-0, 1-Pentanol, uses 79-09-4, Propionic acid, uses
IT
 79-10-7,
 Acrylic acid, uses 110-15-6, Succinic acid, uses 110-94-1, Glutaric acid 111-76-2, Ethylene glycol monobutyl ether 112-34-5, Diethylene glycol monobutyl ether 112-40-3, Dodecane 112-59-4, Diethylene glycol
 monohexyl ether
 124-04-9, Adipic acid, uses 143-22-6, TriEthylene
 glycol monobutyl ether 151-21-3, Sodium lauryl sulfate, uses
 1320-67-8, Propylene glycol monomethyl ether 1639-66-3, Dioctyl
 sodiosulfosuccinate 3097-08-3, Magnesium lauryl sulfate 7487-88-9,
 25322-68-3, PEG300 25498-49-1, TriPropylene
 Magnesium sulfate, uses
 glycol monomethyl ether 29911-28-2 31694-55-0D, Polyethylene
 glycol glycerin ether, coco alkyl ethers 34590-94-8,
 Dipropylene glycol monomethyl ether 55934-93-5, Tripropylene glycol
 monobutyl ether, 80763-10-6, Propylene glycol mono-tert-butyl ether
 RL: TEM (Technical or engineered material use); USES (Uses)
 (microemulsion liq. crystal and cleaning compns. comprising esterified
 and non-esterified ethoxylated glycerol mixt. and
 sulfoxy anionic surfactant)
IT
 31694-55-0D, Polyethylene glycol glycerin ether, coco
 alkyl ethers
 RL: TEM (Technical or engineered material use); USES (Uses)
 (microemulsion liq. crystal and cleaning compns. comprising esterified
 and non-esterified ethoxylated glycerol mixt. and
 sulfoxy anionic surfactant)
 31694-55-0 HCAPLUS
RN
 Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.',.alpha.',.3-
CN
 propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX,NAME)
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ΑŃ
 1997:613824 HCAPLUS
DN
 127:236027
ΤI
 Cleaning compositions comprising mixtures of partially esterified, fully
 esterified, and non-esterified ethoxylated polyhydric alcohols and N-alkyl
 aldonamide surfactant
IN
 Durbut, Patrick
PΑ
 Colgate-Palmolive Co., USA
so
 U.S., 10 pp.
 CODEN: USXXAM
DT
 Patent
LA
 English
IC
 ICM C11D017-00
 C11D001-74; C11D003-32
 ICS
 والمراوا المراوات
NCL
 "510365000"
CC
 46-6 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO.

 ≥0s 5665689
 19970909
 US 1996-708379
 19960904
 WO 1997-US15185 19970828
 WO 9810048
 A2
 19980312
 AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
 PT, RO, RU, SD, SE, SGRISI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ,
 VN, YU, XZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG. AND THE STREET OF THE
 AU 9742396
 r_{\rm fact} {f A1}_{
m to}
PRAI US 1996-708379
 19960904
 WO 1997-US15185, 19970828-
 A cleaning compn. contains 0.1-10% an N-alkyl aldonamide surfactant such
AB
 as N-octyl ribonamide, 0.5-40% partially esterified ethoxylated
 glycerol surfactants such as Levanol F-200, 0.5-8% solubilizer and
 balance H2O.
ST
 alkyl aldonamide cleaning compn; ethoxylated glycerol
 surfactant cleaning compn; ester ethoxylated glycerol
 surfactant; water based cleaning compn surfactant
IT
 Detergents.
 (cleaning compns. comprising mixts. of partially esterified, fully
 esterified, and non-esterified ethoxylated polyhydric alcs. and N-alkyl
 aldonamide surfactant)
IT
 Coco fatty acids
 RL: TEM (Technical, or engineered material use); USES (Uses)
 (esters with polyethylene glycol ether with glycerol (3:1);
 cleaning compns. comprising mixts. of partially esterified, fully
 esterified, and non-esterified ethoxylated polyhydric alcs.
 and N-alkyl aldonamide surfactant)
IT
 31694-55-0D, Polyethylene glycol glycerin ether, esters
 98241-30-6, N-Decyl ribonamide 102404-77-3, N-Octyl ribonamide
 RL: TEM (Technical or engineered material use); USES (Uses)
 (cleaning compns. comprising mixts. of partially esterified, fully
 esterified, and non-esterified ethoxylated polyhydric alcs.
 and N-alkyl aldonamide surfactant)
 31694-55-0D, Polyethylene glycol glycerin ether, esters
 RL: TEM (Technical or engineered material use); USES (Uses)
 (cleaning compns. comprising mixts. of partially esterified, fully
 esterified, and non-esterified ethoxylated polyhydric alcs.
 and N-alkyl aldonamide surfactant)
RN
 31694-55-0 HCAPLUS
 Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
CN
 propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
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ANSWER 14 OF 42 HCAPLUS COPYRIGHT 2001 ACS

L40

Timothy Saunders EIC-LAW Lib. 308-4139

1. 1.

المشاب يولد.

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cH_2 — cH_2 —
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ANSWER 15 OF 42 HCAPLUS
 COPYRIGHT 2001 ACS
L40
 1997:124901 HCAPLUS
AN :
DN
 126:200935
 Cleaning composition in microemulsion or liquid crystal form comprising
TΙ
 mixture of partially esterified, fully esterified and non-esterified
 polyhydric alcohols
 Mondin, Myriam; Loth, Myriam; Broze, Guy; Thomas, Barbara; Adamy, Steven;
IN
 Bala, Frank, Jr.; Mehreteab, Ammanuel
PA
 Colgate-Palmolive Co., USA
 U.S., 13 pp. Cont.-in-part of U.S. Ser. No. 182,523, abandoned.
so
 CODEN: USXXAM
DT
 Patent
 English
LA
 ICM C11D017-00
IC
 ICS C11D001-74; C11D001-83
NCL
 510417000
CC
 46-6 (Surface Active Agents and
 Detergents)
FAN.CNT 24
 PATENT NO.
 _ KIND
 DATE
 APPLICATION NO.
 DATE
 219970204
 A
 US 1994-336932
 19941115
 , 'A
 19960129
 ZA 1994-5565
 ZA 9405565
 CA 2205404
 CA 1995-2205404
 19951109
 19960523
 AA
 WO 9615217
 A1
 19960523
 WO 1995-US14583
 19951109
 . W:
 AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
 GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD,
 MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,
 TM, TT
 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE,
 IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
 NE, SN, TD, TG
 19960606
 AU 1996-41059
 19951109
 AU 9641059
 . A1
 19980903
 AU: 696196
 В2
 EP 791049
 A1
 19970827
 EP 1995-939106
 19951109
 AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT,
 BR 9509682
 Α
 19970930
 BR 1995-9682
 19951109
 CN 1170433
 Α
 19980114
 CN 1995-196880
 19951109
 HU 177481
 A2
 19980528
 HU 1997-2416
 19951109
 A1 , 20000419
 EP 1999-204486
 19951109
 EP 994180
 R: AT, BE,
 CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT,
 US 1996-650211
 US 5610130
 19970311
 19960520
 19930804
PRAI US 1993-102314
 US 1993-155317
 19931122
 US 1994-182523
 19940118
 US 1994-228538
 19940415
 US 1994-336932
 19941115
 US 1994-336936
 19941115
 US 1995-381606
 19950130
 US 1995-385212
 19950205
 EP 1995-939106
 19951109
 19951109
 WO 1995-US14583
OS
 MARPAT 126:200935
 The liq. crystal compn. or the microemulsion compn., which is esp.
AB
 effective in the removal of oily and greasy soil and leaving a shiny
 appearance, contains an anionic detergent, an ethoxylated
 glycerol type compd., a hydrocarbon ingredient, and H2O which
```

comprises the use of a water-insol. odoriferous perfume as the essential hydrocarbon ingredient in proportions sufficient to form a dil. o/w microemulsion compn. contg. 1-20% an anionic detergent, 0.1-50% cosurfactant, 0.1-10% ethoxylated glycerol type compd., 0-1.0% tri-alkyl citrate, 0.4-10% perfume and the balance being H2O. A typical o/w emulsion comprises coco fatty acid 4, Na C13-17 paraffin sulfonate 20.75, Levenol F-200 12, diethylene glycol monobutyl ether 20, perfume 12.5%, and the balance water. ST anionic surfactant all purpose cleaner; ethoxylated glycerol all purpose cleaner; perfume all purpose cleaner; ether cosurfactant all purpose cleaner IT Sulfonates RL: TEM (Technical or engineered material use); USES (Uses) (alkenesulfonates, C13-17, sodium salts, surfactant; cleaning compn. in microemulsion or lig. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols) ΙT Perfumes (cleaning compn. in microemulsion or liq. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols) ΙT Coco fatty acids Fatty acids, uses RL: TEM (Technical or engineered material use); USES (Uses) (cleaning compn. in microemulsion or liq. crystal form comprising mixt. compofipartially esterified, fully esterified and nongesterified polyhydric alcohols) ΙT Detergents (cleaning compns.; in microemulsion or liq. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols) and the Alling IT Coco fatty acids Tallow fatty acids RL: TEM (Technical or engineered material use); USES (Uses) · ." (esters with polyethylene glycol ether with glycerol (3:1); cleaning compn. in microemulsion or liq. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols) IT Alkenes, uses RL: TEM (Technical or engineered material use); USES (Uses) (sulfonates, C13-17, sodium salts, surfactant; cleaning compn. in microemulsion or liq. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols) IT Fatty acid esters RL: TEM (Technical or engineered material use); USES (Uses) (tallow, esters with polyethylene glycol ether with glycerol (3:1); cleaning compn. in microemulsion or liq. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols) 71-41-0, 1-Pentanol, uses 77-94-1, Tri-n-butyl citrate 112-34-5, ΙT Diethylene glycol monobutyl ether 112-40-3, Dodecane Magnesium lauryl sulfate 31694-55-0D, fatty ester derivs. RL: TEM (Technical or engineered material use); USES (Uses) (cleaning compn. in microemulsion or liq. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols) 79-09-4, Propancic acid, uses 79-10-7, 2-Propencic acid, uses 110-94-1, Pentanedioic acid 111-76-2, Ethylene glycol monobutyl ether 143-22-6, Triethylene glycol monobutyl ether 29387-86-8, Propylene

TT 79-09-4, Propanoic acid, uses 79-10-7, 2-Propenoic acid, uses 110-94-1, Pentanedioic acid 111-76-2, Ethylene glycol monobutyl ether 143-22-6, Triethylene glycol monobutyl ether 29387-86-8, Propylene glycol monobutyl ether 29911-28-2 55934-93-5, Tripropylene glycol monobutyl ether 80763-10-6, Propylene glycol tert-butyl ether RL: TEM (Technical or engineered material use); USES (Uses) (cosurfactant; cleaning compn. in microemulsion or liq. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols)

31694-55-0D, fatty ester derivs.

ΙT

RL: TEM (Technical or engineered material use); USES (Uses) (cleaning compn. in microemulsion or liq. crystal form comprising mixt. of partially esterified, fully esterified and non-esterified polyhydric alcohols)

RN 31694-55-0 HCAPLUS

Poly(oxy-1,2-ethanediyl), .alpha., .alpha.', .alpha.''-1,2,3-CN propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)

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GH2==CH
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ANSWER 16 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
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At 1 9 4 4

1996:659273 HCAPLUS ΑN

125:279256 DN

TI Manufacture of high-density, granular detergent compositions

Krings, Peter; Pastura, Amerigo; Behler, Ansgar; Greger, Manfred; ΙN Foerster, Thomas; Boecker, Monika; Sandkuehler, Peter; Pfennig-Dahmen, Renate: (Tayanical or engineered reserve Seyr USFS (Ches)

PA

Henkel Kgaa, Germany
Ger. Offen, 16 pp. SO CODEN: GWXXBX

DT Patenteg ...

LA German

ICM C11D001-83 IC ICS C11D017-00

CC 46-5 (Surface Active Agents and Detergents)

FAN. CNT 2

| PATENT NO. |                      |         | ND DAT   | 'E :    | APP      | PLICATION NO. |        | DATE    |        |     |    |
|------------|----------------------|---------|----------|---------|----------|---------------|--------|---------|--------|-----|----|
| PI         | DE 19509752          |         |          | 60919   |          | 1995-195      |        |         |        |     |    |
|            | WO 9629389<br>W: JP, |         | A1 199   |         | , WO     | 1996-EP9      | 94     | 199603  | 08     |     |    |
|            | RW: AT,              | BE, CH, | DE, DK   | , ES, F | I, FR, G | B, GR, I      | E, IT, | , LU, M | C, NL, | PT, | SE |
|            | EP 815196            | I       | A1 199   | 80107   | EP       | 1996-906      | 756    | 199603  | 08     |     |    |
|            | EP 815196            | F       | 31 199   | 90811   |          |               |        |         |        |     |    |
| ;          | R: AT,               | BE, DE, | ES, FR   | , GB, I | T, NL    |               |        |         |        |     |    |
| •          | AT 183230            | ·       | 199      | 90815   | AT       | 1996-906      | 756    | 199603  | 08     |     | ,  |
|            | ES 2136391           | T       | r3 199   | 91116   | ES       | 1996-906      | 756    | 199603  | 08     |     |    |
| PRAI       | DE 1995-195          | 09752 1 | 19950317 |         |          |               |        |         |        |     |    |
| ÷ •.       | WO 1995-EP4          | 950 19  | 951214   | •       |          |               |        |         |        |     |    |
| •          | WO 1996-EP9          | 94. 19  | 960308   |         |          |               | •      |         |        |     |    |
|            |                      | 11      |          |         |          |               |        |         |        |     |    |

Laundry detergent strand or pellet compns. with improved dissolving and AB rinsing properties are manufd. by extrusion or tabletting of premixes comprising solid anionic surfactants, builders and alkalizing agents as solid components and nonionic surfactants as liq. components. The latter components comprise >50% of alkoxylated fatty acid alkyl ethers R1CO2(AO)mR2 [R1 = C5-21 alk(en)yl; R2 = H, C1-6 alkyl; AO = C2-4 alkylene oxide unit; m = 1-60] or esters R3[O(AO)n]CH2CHO[(AO)oR4]CH2O(AO)pR5[R3-R5 = H, COR6; R6 = C5-21 alk(en)yl; R3 = R4 = R5 .noteq. H; n, o, p =1-60]. Thus, compns. contg. C12-18 alkylbenzenesulfates, ethoxylated C12-18 fatty acid Me esters, Na soap, polyethylene glycol, zeolite, polycarboxylates, Na water glass, bleach activator, protease, lipase, perfume, and silicone defoamer in H2O had better dissoln. and rinsing properties than control compns. contq. ethoxylated fatty alc. Na salts instead of ethoxylated fatty acid esters.

detergent granular high density compn; granular detergent dissolving rate; alkoxylated fatty ester additive granular detergent; anionic nonionic surfactant granular detergent dissoln

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IT.
 Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (C12-18, ethoxylated, Me, Et and Bu esters; manuf. of high-d., granular
 detergent compns.)
IT
 Surfactants
 (anionic, manuf. of high-d., granular detergent compns.)
ΙT
 Detergents
 (laundry, granular, high-d.; manuf. of high-d., granular
 detergent compns.)
ΙT
 Glycerides, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (mono-, ethoxylated, C12-18-soya; manuf. of high-d., granular
 'detergent compns.)
ΙT
 Surfactants
 (nonionic, manuf. of high-d., granular detergent compns.)
98-11-30, Benzenesulfonic acid, C11-13 alkyl derivs. 7664-93-9D,
 Sulfuric acid, esters with C12-18 alcs. 9004-74-4D, Polyethylene glycol
 methyl ether, esters with C12-18 fatty acids
 9004-77-7D, Polyethylene glycol butyl ether, esters with C12-18
 fatty acids 27879-07-8D, Polyethylene glycol ethyl
 ether, esters with C12-18 fatty acids
 31694-55-0D, triesters with soya fatty acids
 RL: TEM (Technical or engineered material use); USES (Uses)
 (manuf. of high-d., granular detergent compns.)
IT
 31694-55-0D, triesters with soya fatty acids
 RL: TEM (Technical or engineered material use); USES (Uses)
: I
 . (manuf._of high-d., granular detergent compns.)
 31694-55-0 HCAPLUS
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
RN
CN
 propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
4 ...
 A 3.50
 - o- ch2- ch2-
 ANSWER 17 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
AN
 1996:590473 HCAPLUS
 125:225160
DN
TΙ
 Process for the manufacture of granular detergent compositions comprising
 nonionic surfactant
IN
 Donoghue, Scott John; Smith, David John
PA
 Procter and Gamble Company, USA
SO
 PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 Patent , 🚉 👢
DT
LA
 English
 ICM C11D001-66
IC
 ICS C11D001-83; C11D003-37; C11D011-00; C11D017-00; B29B009-00
CC
 46-5 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO. DATE
ΡI
 WO 9623048
 A1
 19960801
 WO 1996-US527
 19960105
 W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
 ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,
 LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
 SG, SI
 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE,
 IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
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NE, SN
 CA 2208675
 19960801
 CA 1996-2208675
 19960105
 AA
 AU 1996-47570
 AU 9647570
 A1
 19960814
 19960105
 BR 9606932
 19971111
 BR 1996-6932
 19960105
 EP 805845
 A1
 19971112
 EP 1996-903497
 19960105
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE
 ZA 9600506
 Α
 19960813
 ZA 1996-506
 19960123
 US 5858957
 19990112
 US 1997-875257
 19970923
 PRAI EP 1995-300490
 19950126
 EP 1995-301692
 19950314
 WO 1996-US527
 19960105
 A process for manuf. of detergent compns. from a surfactant paste which is
 · AB
 a solid at 25.degree. and below, comprises: mixing the paste at a temp.
 above its softening point, the paste comprising at least 50% of nonionic
surfactant; forming the molten paste into drops on a cooling surface;
 forming solid pastilles by cooling the drops; and removing solidified
 pastilles from the cooling surface. The surfactants may be one of:
 ethoxylated nonionic surfactants, glycerol ethers,
 glucosamides, glycerol amides, glycerol esters, fatty
 acids, fatty acid esters, fatty amides, alkyl polyglycosides, alkyl
 polyglycol ethers, ethoxylated alkyl phenols, and their mixts.
 A paste comprises preferably a mixt. of polyhydroxy fatty acid amide and
 an ethoxylated nonionic surfactant in 3:7 to 7:3 ratio and one of
 polymeric carboxylates, polyethylene glycols, polyaspartates, and
 polyglutamates as dispersing agents. The process is also suitable for
 prodn. of pastillated granulated detergent compns. or components. Thus, a
 C16-18 N-Me glucamide was prepd. in the presence of a C12-14 ethoxylated
 nonionic surfactant [5 ethylene oxide per mol of alc.]. The surfactant
 mixt. was mixed with C12-16 alkyl sulfate powder and a hydrogenated fatty
 acid obtain a paste. Drops of paste of approx. 1 mm diam. were formed on
 a cooled conveyor belt, and the solidified pastilles were removed from the
 belt and dusted with zeolite A in a drum mixer. The bulk d. of the finished pastillated compn. was about 450 g/L. The process provides for
 prodn. of nonionic surfactant-rich pastes and of granular detergents with
 high surfactant activity and substantially dust free.
 ST
 nonionic surfactant paste manuf granular detergent; ethoxylated alc alkyl
 sulfate powder surfactant
 IT
 Dispersing agents
 (process for manuf. of nonionic surfactant-rich pastes and
 granular detergent compns.),
 IT
 Zeolites, uses
 RL: NUU (Nonbiological use, unclassified); USES (Uses)
 (A, process for manuf. of nonionic surfactant-rich pastes and
 granular detergent compns.)
 TT
 Amines, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (N-oxides, alkyl and hydroxyalkyl and alkylphenyl derivs.; process for
 manuf. of nonionic surfactant-rich pastes and granular
 detergent compns.)
 IT
 Fatty acids, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses),
 (esters, process for manuf. of nonionic surfactant-rich
 pastes and granular detergent compns.)
 Alcohols, uses
 IT
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (ethoxylated, process for manuf. of nonionic surfactant-rich
 pastes and granular detergent compns.)
 IT
 Amides, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (fatty, process for manuf. of nonionic surfactant-rich pastes
 and granular detergent compns.)
 IT
 Detergents
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Timothy Saunders EIC-LAW Lib. 308-4139

(granular, process for manuf; of nonionic surfactant-rich

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pastes and granular detergent compns.)
IT
 Fatty acids, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (hydrogenated, process for manuf. of nonionic surfactant-rich
 pastes and granular detergent compns.)
IT
 Surfactants
 (nonionic, process for manuf. of nonionic surfactant-rich
 pastes and granular detergent compns.)
IT
 7664-93-9, Sulfuric acid, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (alkyl derivs.; process for manuf. of nonionic surfactant
 -rich pastes and granular detergent compns.)
IT
 56-81-5D, Glycerol, ethers and esters and amides
 56-86-0D, Glutamic acid, polymers 107-21-1D, Ethylene glycol, Ph ethers 25322-68-3, Polyethylene glycol 25608-40-6D, Polyaspartic acid, polymers
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (process for manuf. of nonionic surfactant-rich pastes and
 granular detergent compns.)
IT
 98-11-3D, Benzenesulfonic acid, alkyl derivs.
 10543-57-4, Tetraacetyl
 ethylene diamine
 RL: TEM (Technical or engineered material use); USES (Uses)
 (process for manuf. of nonionic surfactant-rich pastes and
 granular detergent compns.)"
 56-81-5D, Glycerol, ethers and esters and amides
IT
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses), (process for manuf. of nonionic surfactant-rich pastes and granular detergent compns.)
IC
RN
 56-81-5 HCAPLUS
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
 Carpana Company of the Carpana Company
 man said, in the second
 · OH
HO-CH2-CH-CH2-OH
 ANSWER 18 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
 1996:388618 HCAPLUS
AN
DN
 125:118121
 Microemulsion light-duty liquid cleaning compositions
TΙ
 Erilli, Rita
IN
PΑ
 Colgate-Palmolive Co, USA
 U.S., 8 pp.
SO
 CODEN: USXXAM
 Patent Company of the Parent
DT
 LΑ
ΙC
NCL
 252550000
 46-6 (Surface Active Agents and
CC:
 Detergents)
FAN. CNT 4
 APPLICATION NO. DATE
 PATENT NO MAIN. KIND DATE
7.1
 US 5523025
 Α
 19960604
 US 1995-392569
 19950223
PΙ
 US 5646104
 A
 19970708
 US 1995-539925
 CA 2213626
 AA 19960829
 CA 1996-2213626 19960220
 WO 9626262
 A1 19960829
 WO 1996-US2203
 19960220
 W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
 GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD,
 MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,
 TM, TR
 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE,
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IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
 NE, SN, TD, TG
 AU 9649272
 A1
 19960911
 AU 1996-49272
 19960220
 AU 698866
 B2
 19981112
 EP 815194
 A1
 19980107
 EP 1996-905540
 19960220
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE
 US 6034049
 20000307
 US 1997-893555
 19970711
 PRAI US 1995-392569
 19950223
 US 1995-514977
 19950814
 US 1995-539925
 19951006
 WO 1996-US2203
 19960220
 MARPAT 125:118121
os -
 A light-duty liq. microemulsion compn. comprises a mixt. of a paraffin
 sulfonate and an ethoxylated alkyl ether sulfate; a
biodegradable compd. of ethoxylated glyceride of a palm kernel oil and a trialkyl ether citrate; a cosurfactant; a perfume,
 essential oil or water insol. hydrocarbon; and water. A compn. contained
 Na C13-17 paraffin sulfonate 8.7, Na ethoxylated C12-14 alkyl ether
 sulfate 2.9, D-limonene 6, propylene glycol 5, and Levenol F200.
st
 microemulsion light duty cleaning compn
ΙT
 Palm kernel oil
 RL: TEM (Technical or engineered material use); USES (Uses)
 (ethoxylated glyceride; microemulsion light-duty
 lig. cleaning compns.)
 Detergents
 (cleaning compns., microemulsion light-duty liq. cleaning compns.)
 Fatty acids, auses
IT
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coco, esters with polyethylene glycol ether with glycerol
 (3:1), microemulsion light duty liq. cleaning compns.)
ΙT
 Glycerides, uses
 TENT 134.
 RL: TEM (Technical or engineered material use); USES (Uses)
 (ethoxylated, of palm kernel oil; microemulsion light-duty
 U_{i}^{*},T
 liq. cleaning compns.)
IT
 56-81-5, Glycerol, uses
 111-76-2, Ethylene glycol
 monobutyl ether 111-77-3, Diethylene glycol monomethyl ether
 Diethylene glycol monobutyl ether 143-22-6, Triethylene glycol monobutyl
 ether, 1320-67-8, Propylene glycol monomethyl ether 5989-27-5, D-Limonene 8006-39-1, Terpinol 25322-68-3D, C12-14 alkyl ether,
 sulfate, sodium salt 25322-68-3D, Cl3-17 paraffin sulfonate, sodium salt
 25322-69-4, Polypropylene glycol 29387-86-8, Propylene glycol monobutyl
 34590-94-8, Dipropylene glycol monomethyl ether. 35884-42-5,
 Dipropylene glycol monobutyl ether 55934-93-5, Tripropylene glycol
 monobutyl ether 65277-53-4 80763-10-6, Propylene glycol
 mono(tert-butyl) ether
 RL: TEM (Technical or engineered material use); USES (Uses)
 (microemulsion light-duty liq. cleaning compns.)
IT
 56-81-5, Glycerol, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (microemulsion light-duty liq. cleaning compns.):
RN
 56-81-5 HCAPLUS
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
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 ANSWER 19 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
 1996:194757 HCAPLUS
ΑN
DN
 the r
 Manufacture of granular detergent components or compositions containing
ΤI
 nonionic surfactants
IN
 Chisholm, Adam Lowery; Schamp, Koen Mariette Albert
 Procter and Gamble Co., USA
 i eti.
```

183 ()

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Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW
DT
 Patent
LА
 English
IC
 ICM C11D017-06
 ICS C11D003-20
CC
 46-5 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 APPLICATION NO. DATE
 PATENT NO.
 KIND DATE

 EP 694608
 19960131
 EP 1994-305619 19940728
 A1
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT,
 WO 9603482 A1 19960208
 WO 1995-US8725
 19950712
 W: CA, CN, JP, MX, US, VN
CA 2194053 AA 19960208
CN 1154712 A 19970716
 CA 1995-2194053 19950712
 CN 1995-194389
 CN 1154712
 19950712
 19970716
 Α '
 JP 1995-505775
 19950712
 JP 10504334
 19980428
 Т2
 19940728
PRAI EP 1994-305619
 WO 1995-US8725
 19950712
os
 MARPAT 124:235588
 A granular laundry detergent component or compn. having bulk d.
AΒ
 .gtoreq.650 g/L is prepd. by dissolving a structuring agent comprising a
 glyceride (e.g., glycerol tristearate) in a nonionic
 surfactant (e.g., polyhydroxy fatty acid amide-ethoxylated fatty
 alc. mixt.) to form a pumpable premix and granulating the premix.
 nonionic surfactant does not migrate from the granules during storage.
 The granules dissolve rapidly in water and give good cleaning of stained
 fabrics.
 laundry detergent nonionic surfactant granulation; nonionic surfactant
ST
 granulation structuring glyceride; glycerol tristearate nonionic
 surfactant granulation; amide fatty polyhydroxy surfactant granulation;
 glucamide fatty surfactant granulation; ethoxylate alc
 surfactant granulation glyceride
ΙT
 Fats and Glyceridic oils-
 RL: MOA (Modifier or additive use); USES (Uses)
 (structuring agents for granulation of nonionic surfactant.
 -contg... detergent components and compns.)
IT
 Amides, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (fatty, polyhydroxy, surfactants; glycerides as 45
 structuring agents for granulation of detergent compassion to
 contg.)
IT
 Alcohols, uses
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses) ... 1.1, ...
 (fatty, ethoxylated, surfactants;
 glycerides as structuring agents for granulation of detergent company contains
 / Eat
 detergent compns. contg.)
ΙT
 Detergents
 (laundry, granular, glycerides as structuring agents for
 granulation of nonionic surfactant-contg.)
 40 d c:
IT
 555-43-1, Glycerol tristearate
 RL: MOA (Modifier or additive, use); USES (Uses) _{
m int}: _{
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m i
 (structuring agent for granulation of nonionic surfactant
 -contg. detergent components and compns.)
 6284-40-8D, N-Methylglucamine, amides with fatty, acids
IT
 25322-68-3D, Polyethylene glycol, monoalkyl derivs.
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (surfactants; glycerides as structuring agents for
 granulation of detergent compns. contg.)
 555-43-1, Glycerol tristearate
IT
 RL: MOA (Modifier or additive use); USES (Uses)
 (structuring agent for granulation of nonionic surfactant
 -contg. detergent components and compns.)
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A 12 12 14

150 - 20)

13 . .

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Octadecanoic acid, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)
CN
 Me^{-(CH_2)_{16}-C-O-CH_2}
Me - (CH_2)_{16} - C - O - CH_2 - CH - O - C - (CH_2)_{16} - Me
 0 (
 ANSWER 20 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 1996:147801 HCAPLUS
AN
 124:179522
DN
 Mild surfactant compositions comprising sulfates of monoglycerides
 or ethoxylated monoglycerides and amino acid
 .derivatives
 Fabry, Bernd; Behler, Ansgar
IN
 Henkel KGaA, Germany
PA
SO
 Ger., 7 pp.
 CODEN: GWXXAW
DT
 Patent
 German
ĿΑ
 ICM C11D001-37
ΙĊ
 ICS A61K007-075; A61K007-08; A61K007-09; A61K007-13; A01N037-02;
 A01N041-02; A01N037-44; B01F017-00; D06M013-342; D06M015-15;
 C14C009-00
 B01F017-08; B01F017-28; B01F017-30; D06M013-262
 46-5 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO.
 DE 4433071
 C1
 19951221
 DE 1994-4433071
 19940916
PT
 WO 9608551
 A1
 19960321
 WO 1995-EP3505
 19950907
 W: JP, US
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
 EP 781319 A1
EP 781319 B1
 EP 1995-932001
 19970702
 19950907
 20000816
 R: BE, DE, ES, FR, GB, IT, NL
 JP 10506417 T2 19980623
 JP 1995-509874
 ES 2150583
 Т3
 20001201
 ES 1995-932001
 19950907
 US 5981450
 US 1997-793999
 A
 19991109
 19970317
PRAI DE 1994-4433071 19940916
 19950907
 WO 1995-EP3505
OS
 MARPAT 124:179522
 The title compns. contain sulfates R1CO(OCH2CH2)xOCH2CH[O(CH2CH2O)yH]CH2O(
AB
 \dot{C}H2CH2O)zSO3X (R1CO = C6-22 acyl; x + y + z = 0-30; X = alkali or alk.
1.5.
 earth metal) and amino acid derivs. selected from N-(C6-22 acyl)qlutamic
 acids or salts, wheat and/or soya protein hydrolyzates, and/or condensates
 of C12-18 fatty acids and wheat and/or soya proteins. The compns. have
 good foaming properties and mildness to skin and are useful in skin
 cleansers, shampoos, detergents for washing fabrics, etc.
 amino acid deriv glyceride sulfate surfactant; ethoxylate
 glyceride sulfate surfactant mixt mildness; skin mildness
 surfactant mixt glyceride sulfate; foaming surfactant mixt glyceride
 sulfate; glutamate acyl surfactant mixt glyceride sulfate; cleaner skin
 surfactant glyceride sulfate; shampoo surfactant glyceride sulfate
ΙT
 Surfactants
 (foaming mixts. of monoglyceride sulfates and amino acid
 derivs. with mildness to skin)
```

RN<sub>\*</sub>

IT

Detergents Shampoos

555-43-1 HCAPLUS

Timothy Saunders EIC-LAW Lib. 308-4139

(foaming mixts. of monoglyceride sulfates and amino acid

```
derivs. with mildness to skin as surfactants for)
ΙT
 Foaming agents
 (foaming surfactant mixts. contg. monoglyceride
 sulfates and amino acid derivs. with mildness to skin)
ΙŤ
 Protein hydrolyzates
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (in foaming surfactant mixts. contq. monoglyceride
 sulfates with mildness to skin)
ΙT
 Proteins, uses
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (reaction products with coco fatty acids; in
 foaming surfactant mixts. contg. monoglyceride
 sulfates with mildness to skin)
 56-81-5D, Glycerol, monoesters with fatty
IT
 acids, sulfated, sodium salts 7664-93-9D, Sulfuric acid, monoesters with monoglycerides, sodium salts
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (in foaming surfactant mixts. contg. amino acid derivs. with
 mildness to skin)
 42926-22-7, Sodium N-lauroylglutamate
TT
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (in foaming surfactant mixts, contg. monoglyceride
 sulfates with mildness to skin)
ÍŤ
 56-81-5D, Glycerol, monoesters with fatty
 acids, sulfated, sodium salts
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (uses) (in foaming surfactant mixts. contg. amino acid derivs. with
 mildness to skin)
 56-81-5 HCAPLUS
RN
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
 OH Lite
 HO-CH_2-CH-CH_2-OH
 ANSWER 21 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
ΑN
 1996:71501 HCAPLUS
 124:179521
DN
TI
 Tumble dryer articles containing surfactant mixtures for fabric
 conditioning compositions
 Lam, Andrew C.; Lin, Samuel Q.; Taylor, Timothy J.; Winters, John R.
IN
PA
 Lever Brothers Company, Division of Conopco, Inc., USA
 U.S., 7 pp.
SO
 CODEN: USXXAM
DT
 Patent
 English
LA
 ICM D06M013-46
IC
 ICS D06M010-08; B05D003-12
 252008800
NCL
CC
 46-5 (Surface Active Agents and
 Detergents)
FAN. CNT 1
 PATENT NO.
 KIND
 DATE
 APPLICATION NO.
PΙ
 US 5480567
 19960102
 US 1994-259706
 Α
 19940114
 MARPAT 124:179521
OS
 An article (e.g., nonwoven fabric) giving good transfer of fabric
 conditioning compds. to fabrics in a tumble dryer contains a mixt. of
 .gtoreq.1 surfactant with endotherm peak temp. 75-155.degree. selected
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ethylenebisstearamide, .gtoreq.1 other surfactant with endotherm peak
 temp. 35-70.degree. selected from long-chain fatty acids (e.g., C16-18), a
 glycerol deriv. (e.g., glycerol monostearate), and/or
 alkoxylated C8-20 alcs., and, optionally, another softening agent
 such as a quaternary ammonium compd., a tertiary fatty alkylamine, a fatty
 acid, an ethoxylated fatty alc., or a siloxane oil.
 st
 tumble dryer article fabric conditioner; softener fabric tumble dryer
 article; ammonium conditioner fabric tumble dryer; fatty acid conditioner
 fabric tumble dryer; glycerol deriv conditioner fabric tumble dryer; alc
 alkoxylate conditioner fabric tumble dryer
 IT
 Softening agents
 (in tumble dryer articles contg. surfactant mixts. for
 improved transfer to fabrics)
IT Fatty acids, uses
 Quaternary ammonium compounds, uses
 RL: MOA (Modifier or additive use); MSC (Miscellaneous); TEM (Technical or
 engineered material use); USES (Uses)
 (in tumble dryer articles for improved transfer of conditioners
 to fabrics)
 57-10-3, Palmitic acid, uses 57-11-4, Stearic acid, uses
 IT
 Stearic acid, esters with Me glucoside 110-30-5, Ethylenebisstearamide
 112-80-1D, Oleic acid, esters with Me glucoside 1338-41-6, Sorbitan
 monostearate 1338-43-8, Sorbitan monooleate 3149-68-6D, Methyl glucoside, esters with fatty acids 9004-99-3,
 Polyethylene glycol monostearate 31566-31-1, Glycerol horopropyl
 monostearate RL: MOA: (Modifier or additive use); MSC (Miscellaneous); TEM (Technical or
 engineered material use); USES (Uses)
 (in tumble dryer articles for improved transfer of conditioners
 to fabrics)
 31566-31-1, Glycerol monostearate
 IT
 RL: MOA (Modifier or additive use); MSC (Miscellaneous); TEM (Technical or
 engineered material use); USES_f(Uses)
 (in tumble dryer articles for improved transfer of conditioners
 to fabrics) ,
 31566-31-1 HCAPLUS
 RN
 Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX
 CN
 NAME)
 1.50
 CRN 57-11-4
 the transfer of the
 CMF C18 H36 O2
 Construction of the same
 The state of the s
 er acid, ee
 5, Eth., act.58
 HO₂C- (CH₂)₁₆-Me
 twice the same of
 Alpha (compa, Mala)
 CRN 56-81-5
 CRN 56-81-5
CMF C3 H8 Q3
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 HO-CH2-CH-CH2-OH = 10 1 10 10
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 ANSWER 22 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 L40
 .:i 1 ;
 7.7
 1996:50646 HCAPLUS
 AN
 DN
 High-foaming, light-duty liquid detergents for cleaning hard surfaces
 ΤI
 Adamy, Steven; Bedi, Sat; Mehreteab, Ammanuel
 IN
```

from R2N+Me2 MeOSO3- (R = tallowoyloxyethyl, tallowoyloxypropyl) and

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SO
 U.S., 8 pp.
 CODEN: USXXAM
DT
 Patent
LΑ
 English
IC
 ICM C11D001-90
 ICS C11D001-94; C11D001-24; C11D007-26
.NCL
 252544000
CC
 46-6 (Surface Active Agents and
 Detergents)
FAN.CNT 3
 PATENT NO.
 KIND
 DATE
 APPLICATION NO.
 DATE
 J)S 5476614
PΙ
 Α
 19951219
 US 1995-373811
 19950117
 A 19980616 US 1995-540636
A1 19960725 WO 1996-US157
 5767050
 19951011
 US
 wo''9622347:
 19960116
 AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
 GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD,
 MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,
 TM, TR
 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE,
 IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
 NE, SN, TD, TG
 AU 9646947
 A1
 19960807
 AU"1996-46947
PRAI US 1995-373811:
 19950117
 US 1995-540636 19951011 WO 1996-US157 19960116
FN
os
 MARPAT 124:264094
 Title detergents with good mildness to human skin and improved interfacial
ΑB
 tension for cleaning hard surfaces contain a biodegradable solubilizing
7.75
 agent (e.g., an alkyl polysaccharide surfactant), a water-sol., foaming,
ethoxylated alkyl ether sulfate anionic surfactant, and a water-sol.,
 foaming zwitterionic betaine surfactant. A typical aq. detergent
 contained polyethoxylated coco fatty acid glycerol ester (av.
 d.p. 6) solubilizer 20, Na laureth sulfate 4.5, cocoamide Pr betaine 5,
 hydrophobic ethoxylated nonionic surfactant 3, and MgSO4.7H2O
 liq detergent mild hard surface; anionic nonionic zwitterionic surfactant
ST
 liq detergent; biodegradable solubilizing agent liq detergent; hydrophobic
 ethoxylated nonionic surfactant liq detergent; laureth sulfate sodium liq
 detergent; cocoamide propyl betaine liq detergent; polyoxyethylene
 glyceride ether liq detergent
IT
 Betaines
 RL: TEM (Technical or enqineered material use); USES (Uses)
 (cocoamide Pr and lauryl dimethylamine; high-foaming, light-duty lig.
 detergents with good mildness for cleaning hard surfaces)
TT
 Biodegradable materials
 (high-foaming, light-duty liq. detergents with good mildness
 for cleaning hard surfaces)
IT
 Polysaccharides, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (alkyl ethers, high-foaming, light-duty liq. detergents with
 good mildness for cleaning hard surfaces)
IT
 Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coco, esters with polyethylene glycol ether with glycerol
 (3:1), high-foaming, light-duty liq. detergents with good
 mildness for cleaning hard surfaces)
IT
 Detergents
 (liq., high-foaming, light-duty liq. detergents with good
 mildness for cleaning hard surfaces)
IT
 112-42-5, 1-Undecanol
 9004-82-4, Sodium laureth sulfate
 31694-55-0D, Polyethylene glycol glycerol ether, esters
 with coco fatty acids
 34398-01-1, Neodol 1-9
 144113-31-5, APG 600
 156014-44-7, APG 625
 RL: TEM (Technical or engineered material use); USES (Uses)
 (high-foaming, light-duty liq. detergents with good mildness
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PA.

Colgate Palmolive Co., USA

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with coco fatty acids
 RL: TEM (Technical or enqineered material use); USES (Uses)
 (high-foaming, light-duty liq. detergents with good mildness
 for cleaning hard surfaces)
RN
 31694-55-0 HCAPLUS
 Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
CN
 propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
 о-сн2-сн2
 The Charles And American
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 ANSWER 23 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
 1995:931304 HCAPLUS
ΑN
DN
 123:344229
 C. 1 special separate single-s
 Microemulsion all-purpose liquid cleaning compositions for hard surfaces
ΤI
 Thomas, Barbara; Adamy, Steven; Bala, Frank; Mehreteab, Ammanuel; Mondin,
IN
 Myriam: Loth, Myriam: Broze, Guy
 rrai, e-Jezs
ΡÀ
 Colgate-Palmolive Co., USA
 Eur. Pat. Appl., 14 pp.
SO
 CODEN: EPXXDW
 I a gowing this,
 DT
LA
 English.
 ICM C11D017-00
ÌC
 11 Th 1
 ICS C11D001-825; C11D001-83; C11D001-66
CC
 46-6 (Surface Active Agents and
 Detergents)
FAN.CNT 4
 KIND DATE
 APPLICATION NO. DATE
 PATENT NO.
 PΙ
 EP 668346
 A1
 19950823
 EP 1995-300717
 19950206
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE
 US 1994-350576
 US 5571459
 Α
 19961105
 19941207
 19940207
PRAI US 1994-192902
 US 1994-350576
 19941207
AB
 Environment-friendly aq. title compns. contain ethoxylated
 glycerol-type compd. (polyethoxylated glycerol coco
 fatty acid ester) 1-20, anionic sulfate surfactant 0.1-8, a cosurfactant
 1-50, and .gtoreq.1 hydrocarbon and(or) perfume 0.4-20%. The
 ethoxylated glycerol-type compd., hydrocarbon, and
 perfume improved the removal of greasy or oily soil from the surfaces.
SŤ
 environment friendly emulsion liq cleaner; perfume emulsion liq cleaner;
 hydrocarbon, emulsion liq cleaner; ethoxylated glycerol
 emulsion liq cleaner
 Hydrocarbons, uses,
IT
 Terpenes and Terpenoids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (microemulsion all-purpose liq. cleaning compns. for hard surfaces)
İT
 Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coco, esters, with polyethylene glycol glycerol ether;
 microemulsion all-purpose liq. cleaning compns. for hard surfaces)
IT
 Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coco, esters with polyethylene glycol ether with glycerol
 (3:1), Levenol F 200; microemulsion all-purpose liq. cleaning compns.
 for hard surfaces)
 .T. 11
ΙT
 Detergents
```

for cleaning hard surfaces)

31694-55-0D, Polyethylene glycol glycerol ether, esters

IT

- 35 • 75 100

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. 11 -

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(liq., microemulsion all-purpose liq. cleaning compns. for hard
 surfaces)
IT
 Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (tallow, esters, with polyethylene glycol glycerol ether;
 microemulsion all-purpose liq. cleaning compns. for hard surfaces)
IT
 Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (tallow, esters with polyethylene glycol ether with glycerol
 (3:1), Levenol V 501/2; microemulsion all-purpose liq. cleaning compns
 for hard surfaces)
 112-40-3, Dodecane 31694-55-0D, Polyethylene glycol
IT
 glycerol ether, fatty esters
 RL: TEM (Technical or engineered material use); USES (Uses)
 (microemulsion all-purpose liq. cleaning compns. for hard surfaces) 31694-55-0D, Polyethylene glycol glycerol ether, fatty
 esters
 RL: TEM (Technical or engineered material use); USES (Uses)
 (microemulsion all-purpose liq. cleaning compns. for hard surfaces)
RN
 31694-55-0 HCAPLUS
 Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
CN
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 CH2 CH2 CH2
 PRIOR PUBLICATION
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 ANSWER 24 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
AN
 1995:902631 HCAPLUS
DN
 123:290532
 Monoglycerides for improving the foaming properties of fatty
Τİ
 acid esters of ethoxylated alcohols
 Tonomura, Manabu; Iwahashi, Masaaki; Koike, Toyomi
IN
 Kao Corp., Japan
PA
 Eur. Pat. Appl., 10 pp.
SO
 CODEN: EPXXDW
DT
 Patent
 Louis Charles
 < 14
LΑ
 English
 ICM A61K007-50
IC
 ICS A61K007-48; C11D001-825; C11D001-94
 46-6 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO.
 EP 661043
 A1
 19950705
 EP 1994-120398
PI
 R: DE, ES, GB
 JP 07197083 A2
US 5554315 A
 19950801
 JP 1993-354071
 19931228
 19960910
 US 1994-364687
 19941228
PRAI JP 1993-354071 + 19931228
 The foaming properties of a surfactant R(OR1)nOR2 (R = C10-18 alkanoyl or
AB
```

glycerol monocaprate showed good foaming properties.

polyoxyethylene alkyl ether fatty ester foaming; glyceride foaming fatty ester ethoxylate alc; laurate polyoxyethylene alkyl ether foaming monoglyceride; caprate glycerol foaming fatty ester ethoxylate; nonionic surfactant fatty ester

fatty ester ethoxylate alc foaming monoglyceride;

ST

propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)

alkenoyl; R1 = C2-4 alkylene; R2 = lower alkyl; n = 5-100) are improved by the addn. of a monoglyceride R3OCH2CH(OH)CH2OH (R3 = C8-16 alkanoyl or C12-22 alkenoyl). A 2:1 mixt. of Me(CH2)10CO(OCH2CH2)nOMe (n = 15) and

```
ethoxylate foaming
IT
 Foaming agents
 (monoglycerides; mixts. with fatty acid
 esters of ethoxylated lower alcs. for improved foaming)
IT
 Detergents
 (cleaning compns., mixts. of monoglycerides and fatty
 acid esters of ethoxylated lower alcs. as
 surfactants for high-foaming)
IT
 Glycerides, uses
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (mono-, surfactants; mixts. with fatty acid
 esters of ethoxylated lower alcs. for improved foaming)
IT
 Surfactants
 (nonionic, mixts. of monoglycerides and fatty
 acid esters of ethoxylated lower alcs. as
 high-foaming)
 142-18-7, Dodecanoic acid 2,3-Dihydroxypropyl ester
IT
 542-44-9, Hexadecanoic acid 2,3-Dihydroxypropyl ester
 2277-23-8, Decanoic acid 2,3-Dihydroxypropyl ester
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (surfactants; mixts. with fatty acid
 esters of ethoxylated lower alcs. for improved foaming)
 9004-74-4D, Polyethylene glycol monomethyl ether, esters with
 fatty acids 9006-27-3, Polyethylene glycol monomethyl
 ether laurate 32761-35-6, Polyethylene glycol monomethyl ether myristate
1 I
 53467-81-5, Polyethylene glycol monomethyl ether palmitate 53467-82-6,
 Polyethylene glycol monomethyl ether stearate
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
\lambda T
 (Uses)
 (surfactants; mixts. with monoglycerides for
 improved foaming properties)
 142-18-7, Dodecanoic acid 2,3-Dihydroxypropyl ester
TT
 542-44-9, Hexadecanoic acid 2,3-Dihydroxypropyl ester.
 2277-23-8, Decanoic acid 2,3-Dihydroxypropyl ester
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (surfactants; mixts. with fatty acid
 esters of ethoxylated lower alcs. for improved foaming)
 142-18-7 HCAPLUS
RN
 Dodecanoic acid, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)
CN
 OH" · O'
 HO-CH_2-CH-CH_2-O-C-(CH_2)_{10}-Me
 542-44-9 HCAPLUS
RN
 Hexadecanoic acid, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)
 Francisco Constant
 OH CHEEL O
 HO-CH_2-CH-CH_2-O-C-(CH_2)_{14}-Me
 and the property was a second of the second
 2277-23-8 HCAPLUS
RN
CN
 Decanoic acid, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)
 OH
 0
```

 $HO-CH_2-CH-CH_2-O-C-(CH_2)_8-Me$ 

```
ANSWER 25 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
 1995:713730 HCAPLUS
ΑN
 123:86640
DN
TI
 Preparation of surfactant mixtures containing ethoxylated
 partial glycerides
 Bigorra Llosas, Joaquim; Pi, Rafael; Prat Queralt, Ester
IN
PA
 Henkel K.-G.a.A., Germany; Pulcra S.A.
so
 Ger., 6 pp.
 CODEN: GWXXAW
DT
 Patent
LΑ
 German
 ICM C07C233-36
IC
 ICS C07C233-38; C07C069-708; C07C231-12; C07D233-22; C11D001-90;
 C11D001-94; C11D001-62
 A01N033-12
ICA
 46-3 (Surface Active Agents and
CC
 Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO.
 DATE
 DE 1993-4337324 19931102
 DE 4337324
 C1
 19950216
PI
 DE 4337324
 C2
 19980520
 WO 9512571
 A1 19950511
 WO 1994-EP3520
 19941026
 ₩: JP, US
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
 EP-726890 36 42 A1 --- 19960821 EP 1994-930979 EP 726890 36 Here B1 19990512
 19941026
5.45
 EP 726890 30 R: 48 BE, DE, ES, FR, GB, IT
J.N
 . . .
 JP 09504332 T T2 19970428
 JP 1994-512996
 19941026
 ES 1994-930979
 ES 2133586
 Т3
 19990916
 19941026
PRAI DE 1993-4337324 19931102 19931102
 The state of the s
 MARPAT 123:86640
OS
 The title mixts., showing good storage stability and useful in detergents
AB
 and shampoos, are prepd. by alkylating a secondary or tertiary amine in
 the presence of an ethoxylated partial glyceride in
 the absence of water or an org. solvent. An adduct of 7 mol ethylene
 oxide and I mol coco monoglyceride was heated to 85.degree.,
 mixed with ClCH2CO2Na, treated with N-coco amidopropyl-N, N-dimethylamine,
 and heated at 90.degree. to give a surfactant mixt. contg. betaine 55,
 ethoxylated coco monoglyceride 38, coco fatty acid 5,
ST
 betaine ethoxylate partial glyceride surfactant mixt;
 amine quaternization surfactant ethoxylate partial,
 glyceride
IT
 Quaternization
 (of amines in prepn. of surfactant mixts. contg. betaines and
 ethoxylated partial glycerides)
IT
 Surfactants
 (prepn. of solvent-free mixts. of betaines and ethoxylated
 partial glycerides)
TT
 Betaines.
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (coco amidopropyl, prepn. of surfactant mixts. contg.
 ethoxylated partial glycerides and)
TT
 Amides, uses
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (coco, N-[(dimethylamino)propyl], quaternization products with sodium
 chloroacetate; prepn. of surfactant mixts. contg.
 ethoxylated partial glycerides and)
 56-81-5DP, Glycerol, partial esters with fatty
IT
 25322-68-3DP, Polyethylene glycol,
 acids, ethoxylated
 ethers with partial glycerides
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
```

```
(prepn. of surfactant mixts. contg. coco amidopropyl betaine
 3926-62-3DP, Sodium chloroacetate, quaternization products with (coco
IT
 amidopropyl)dimethylamine
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (prepn. of surfactant mixts. contg. ethoxylated
 partial glycerides and)
IT
 56-81-5DP, Glycerol, partial esters with fatty
 acids, eth xylated
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP*(Preparation); USES (Uses)
 (prepn. of surfactant mixts. contg. coco amidopropyl betaine
 56-81-5 HCAPEUS
RN
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
 OH
HO-CH_2-CH-CH_2-OH
L40 ANSWER-26-OF-42, HCAPLUS COPYRIGHT 2001 ACS
 1995:594416 HCAPLUS
ΑN
 123:86666
DN
 Detergent compositions containing alkoxylated glycerol, ...
ΤĮ
 and mono-, di-, and triesters of alkoxylated glycerol
 Pujol, Enrique; Pujadas, Francisco; Prat, Antonio; Okabe, Kazuhiko
IN
 Kao Corporation, S.A., Spain, and
PA
 U.S., 7 pp. Cont.-in-part of U.S. Ser. No. 979,092, abandoned.
SO
 CODEN: USXXAM
DT
 Patent.
LA
 English
 ICM C11D001-825
TC
 ICS C11D001-722; C11D011-04
NCL
 252174220
CC
 46-5 (Surface Active Agents and
 Detergents)
FAN.CNT 2
 PATENT NO.
 KIND DATE
 APPLICATION NO.
 DATE
 US 5403509
 19950404
 US 1993-93621
 19930720
PΙ
 Α
 19920720
PRAI EP 1992-500092
 US 1992-979052 19921119
 Detergent compns. contg. glycerol derivs. B(OCHR1CH2)nOCH[CH2O(CH2CHR1O)mB
]CH2O(CH2CHR1O)pB (I; B = H, RCO; .gtoreq.1 B = RCO; R = C6-22 alkyl or
 alkenyl; R1 = H, CH3; n, m, p = 0-40; n + m + p = 2-100) and I (B = H; RI,
 n, m, p as defined above) are non-toxic, non-irritating, and biodegradable
 and show good detergency, foam stability, and dye transfer inhibition
 during laundering. The glycerol derivs. are prepd. by
 interesterification of triglycerides (e.g., coconut oil) with
 glycerol, alkoxylation with a C2-3 alkylene oxide, and
 esterification with a fatty acid.
 glycerol alkoxylate ester laundry detergent;
 ethoxylate glycerol ester laundry detergent; fatty ester
 glycerol alkoxylate detergent; coco glyceride
 alkoxylate ester detergent; dye transfer inhibitor laundry
 detergent
IT
 Dyes
 (alkoxylated; glycerol and esters of
 alkoxylated glycerol in laundry detergents
 for inhibiting transfer of);
IT
 Coconut oil
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
```

use); PREP (Preparation); USES (Uses)

> 1

```
use); USES (Uses)
 (interesterification products with glycerol,
 ethoxylated, surfactants; in laundry
 detergents with dye-transfer-inhibiting ability)
IT
 Fatty acids, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)
 (mono- and diesters with glycerol and ethoxylated
 glycerol, surfactants; in laundry detergents
 with dye-transfer-inhibiting ability)
 Glycerides, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)
 (di-, ethoxylated, surfactants; in laundry
 detergents with dye-transfer-inhibiting ability)
 Detergents
(laundry, alkoxylated glycerol and esters of
 alkoxylated glycerol in dye-transfer-inhibiting)
IT
 Glycerides, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)
 (mono-, ethoxylated, surfactants; in laundry
 detergents with dye-transfer-inhibiting ability)
 Surfactants
 (nonionic, alkoxylated glycerol and esters of
 alkoxylated glycerol; prepn. and use for dye transfer
 inhibition during laundering)
 56-81-5D, Glycerol, interesterification products with
IT
 coconut oil, ethoxylated 75-21-8D, Ethylene oxide, reaction
 products with glycerol and glycerol fatty
 acid esters
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)
 (surfactants; in laundry detergents with
 dye-transfer-inhibiting ability)
IT
 56-81-5D, Glycerol, interesterification products with
 coconut oil, ethoxylated
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)
 (surfactants; in laundry detergents with
 dye-transfer-inhibiting ability)
RN
 56-81-5 HCAPLUS
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
 ОН
 1 100 100 100
HO-CH2-CH-CH2-OH 1
 and the second
 ANSWER 27 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 1995:502969 HCAPLUS
AN
 122:242808
DN
 Laundry detergent containing protease for removing protein soils
ТT
 Daurov, Boris K.; Simanova, Marionella V.; Chernyshev, Gennadij N.;
 Mikhalkin, Anatolij P.; Gnatyuk, Petro P.; Fanda, Valentina V.
 Vsesoyuznyj Nauchno-Issledovatelskij i Proektnyj Institut Khimicheskoj
 Promyshleenosti, USSR
SO
 U.S.S.R.
 From: Izobreteniya 1993, 19, 182.
 CODEN: URXXAF he
 Patente
DT
LΑ
 Russian
 ICM C11D003-386
IC
 C11D003-386, C11D001-72, C11D003-20, C11D009-26
 46-5 (Surface Active Agents and
```

```
Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO. DATE

ΡI
 A3
 19930523
 SU 1991-4951905 19910628
 SU 1817790
AΒ
 The title detergent with good enzyme stability contains
 ethoxylated nonylphenol or Na alkanesulfonate 13-18,
 ethoxylated C10-18 synthetic fatty alcs. 7-15, K salts of C17-22
 synthetic fatty acids 2-5, ethylene glycol or glycerol 5-10, K adipate 2-5, protease 1-3, N-(C9-20 acyl) amino acid 1-3, MgSO4 0.5-1.5,
 brightener 0.1-0.3, and fragrance 0.1-0.3%, the balance being water.
ST
 laundry détergent protease storage stability; ethoxylate nonylphenol
 laundry detergent protease; alkanesulfonate laundry detergent protease;
 potassium soap laundry detergent protease; ethylene glycol laundry
 detergent protease; glycerol laundry detergent protease
 Detergents
 (laundry, liq., storage-stable protease-contq.)
ΙT
 RL: TEM (Technical or engineered material use); USES (Uses)
 (potassium, in liq. laundry detergents contg. protease)
 56-81-5, Glycerol, uses 107-21-1, Ethylene glycol, uses 7440-09-7D, Potassium, salts with fatty acids
IT
 9016-45-9, Ethoxylated nonylphenol 19147-16-1, Dipotassium adipate
 25322-68-3D, Polyethylene glycol, monoalkyl ethers
 RL: TEM (Technical or engineered material use); USES (Uses)
 (in liq. laundry detergents contg. protease)
IT.
 9001-92-7, Proteinase
 RL: TEM (Technical or engineered material use); USES (Uses)
 (in liq. laundry detergents with storage stability)
 56-81-5, Glycerol, uses - 125 - 7 - 3
ΙT
 RL: TEM (Technical or engineered material use); USES (Uses)
. 1.72
 (in liq. laundry detergents contg. protease)
 56-81-5 HCAPLUS
RN
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
 FOH Charles the second
HO-CH₂-CH-CH₂-OH
 المراجعة المعورة بأثثاث المراجعة
 ANSWER 28 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
 1994:438117 HCAPLUS
AN
DN
 121:38117
 Pearlescent liquid detergent compositions
ΤI
 Hayakawa, Yutaka; Tosaka, Masaki
IN
 Kao Corp, Japan
PA
 Jpn. Kokai Tokkyo Koho, 8 pp.
SO
 CODEN: JKXXAF
 DT
LА
 ICM C11D001-83
IC
 ICS A61K007-075; A61K007-50
ICI
 C11D001-83, C11D001-68, C11D001-12, C11D003-40, C11D003-37
CC
 46-6 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO.

 JP 1992-174499 19920701
PΤ
 JP 06017088
 A2 19940125
OS
 MARPAT 121:38117
AB
 The title compns., showing good storage stability, foaming properties, and
 detergency, contain 1-40% glycosides R1(OR2)xGy (R1 = C8-18 alkyl,
 alkenyl, alkylphenyl; R2 = C2-4 alkylene; G = residue of C5-6 reducing
 sugar; x = 0-5; yr = 1.0-1.42), 1-40% anionic surfactants, 1-10% opacifier
```

[e.g., 2-hydroxyethyl stearate (I), N-(2-hydroxyethyl)stearamide, or a

```
monoglyceride], and 1-10% polyethylene glycol (II),
 ethoxylated glycerol, or a similar compd. A compn.
 contq. dodecyl glucoside 15, polyethylene glycol monododecyl ether sulfate
 Na salt 15, I 6, II (mol. wt. 1000) 4, EtOH 5, and H2O 55% showed good
 pearlescence before and after storage at -5.degree., +30.degree., or
 +40.degree. for 1 mo.
st
 pearlescence liq detergent storage stability; glycoside liq detergent
 pearlescence; polyoxyalkylene ether liq detergent pearlescence; opacifier
 pearlescence liq detergent; amide opacifier pearlescence detergent;
 monoglyceride opacifier pearlescence detergent
IT
 Opacifiers
 (liq. detergent compns. contg., pearlescent, foaming)
IT
 Pearly substances
 (liq. detergents contg. opacifiers and, stable, foaming)
 Glycosides RL: USES (Uses)
 (alkyl, liq. detergent compns. contg. opacifiers and,
 pearlescent, foaming)
IT
 Detergents
 (liq., pearlescent, contg. alkyl glycosides and opacifiers, stable,
 foaming)
 Glycerides, uses
IT
 RL: USES (Uses)
 (mono-, opacifiers, liq. detergent compns. contg.
 pearlescent, foaming)
IT
 RL: USES (Uses)
 - 3 3 c 1 1.
 (sulfo, esters, liq. detergent compns. contg. opacifiers and,
 pearlescent, foaming)
 9004-82-4, Polyethylene glycol monododecyl ether sulfate sodium salt
IT
 59122-55-3
 RL: USES (Uses)
i ,
 (liq. detergent compns. contg. opacifiers and, pearlescent,
 foaming)
IT
 111-57-9, N-(2-Hydroxyethyl) stearamide
 111-60-4, Ethylene glycol
 monostearate 9051-48-3, Polypropylene glycol ethylene glycol ether
 25322-68-3 31566-31-1, Glycerin monostearate 31694-55-0
 , Polyethylene glycol glycerol ether
 RL: USES (Uses)
 (opacifiers, liq. detergent compns. contq., pearlescent,
 foaming)
 31566-31-1, Glycerin monostearate 31694-55-0,
IT
 Polyethylene glycol glycerol ether
 RL: USES (Uses)
 (opacifiers, lig. detergent compns. contq., pearlescent,
 foaming)
RN
 31566-31-1 HCAPLUS
CN
 Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX
 NAME)
 والطال وراجا إزار
 1, 14-42-
 CRN
 57-11-4.
 CMF
 C18 H36 O2
HO_2C^-(CH_2)_{16}^-Me
 CM
 CRN
 56-81-5
 CMF
 C3 H8 O3
```

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он
|
но- сн₂- сн- сн₂- он
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RN 31694-55-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)

```
\begin{array}{c|c} \text{CH}_2 & \begin{array}{c|c} \text{O-CH}_2 - \text{CH}_2 & \begin{array}{c} \text{OH}_2 \\ \text{O-CH}_2 - \text{CH}_2 & \begin{array}{c} \text{OH}_2 \\ \text{O-CH}_2 - \text{CH}_2 & \begin{array}{c} \text{OH}_2 \\ \text{O-CH}_2 - \text{CH}_2 & \begin{array}{c} \text{OH}_2 \\ \text{O-CH}_2 - \text{CH}_2 & \end{array} \end{array}
```

L40 ANSWER 29 OF 42 HCAPLUS COPYRIGHT 2001 ACS

AN 1994:438102 HCAPLUS

DN 121:38102

TI Nonionic surfactants comprising esters "of" fatty "acids and ethoxylated glycerol and partial glycerides

IN Pujol, Enrique; Pujadas, Francisco; Prat, Antonio; Okabe, Kazuhiko

PA Kao Corp., S.A., Spain

SO Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DT Patent

LA English.

IC ICM C11D001-74.

CC 46-5 (Surface Active Agents and Detergents)

## בסטטב אות מ

| FAN. | CNT              | 2      |     |     |      |          |      |      |     |                 |          |          |          |  |  |
|------|------------------|--------|-----|-----|------|----------|------|------|-----|-----------------|----------|----------|----------|--|--|
|      | PATENT NO.       |        |     |     | KIN  | 1D       | DATE |      |     | APPLICATION NO. |          |          | DATE     |  |  |
|      |                  |        |     |     | ·    |          |      | ÷    |     |                 |          |          |          |  |  |
| PI   | ΕP               | 5863   | 23  |     | A1   | L        | 1994 | 0309 |     | EP              | 1993-500 | 108      | 19930720 |  |  |
|      | ΕP               | 586323 |     | B1  | L    | 19960410 |      | •    |     |                 |          |          |          |  |  |
|      |                  | R:     | ΑT, | BE, | DE,  | ES,      | FR,  | GB,  | IT, | NL              |          |          |          |  |  |
|      | <b>AT</b> 136579 |        |     | E   |      | 19960415 |      |      | AΤ  | 1993-500        | 108      | 19930720 |          |  |  |
|      | ES               | 2088   | 254 |     | , T3 | 3        | 1996 | 0801 |     | ES              | 1993-500 | 108      | 19930720 |  |  |

PRAI EP 1992-500092 19920720

The title surfactants B(OCHR1CH2)mOCH2CH[O(CH2CHR1O)nB]CH2O(CH2CHR1O)1B (B = H, RCO; R = C6-22 alkyl or alkenyl; R1 = H, Me; n, m, l = 0-40; m + n + l = 2-100), comprising monoesters 46-90, diesters 9-30, and triesters 1-15 parts, are useful for washing fabrics, skin, etc., showing good detergency, dye transfer inhibition, and mildness to skin. The surfactants are prepd. by interesterification of a triglyceride and glycerol and alkoxylation of the product or by alkoxylation of glycerol and reaction of the product with fatty acids or their me esters. A surfactant was prepd. by interesterifying 0.76 mol coco triglycerides with 2.29 mol glycerol followed by ethoxylation with 45.7 mol ethylene

oxide.

ST glyceride alkoxylate nonionic surfactant;
glycerol alkanoate alkoxylate nonionic surfactant;
ethoxylate glycerol alkanoate nonionic surfactant;
polyoxyethylene deriv glycerol alkanoate surfactant; laundry detergent
glyceride alkoxylate; skin cleaner glyceride
alkoxylate; dye transfer inhibitor glyceride
alkoxylate

IT Dyes

(transfer of, redn. of, laundry detergents contg. nonionic surfactants for)

IT Detergents

(cleaning compns., ethoxylated glycerol

```
esters with fatty acids 31694-55-0DP,
 fatty acid esters
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (surfactants, prepn. and uses of)
 31694-55-0DP, fatty acid esters
RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (surfactants, prepn. and uses of)
 31694-55-0 HCAPLUS
RN
 Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
CN
 propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)
 A STATE OF THE PERSON OF THE P
 The states, sometiments were a
 --- cн₂-- сн-
 — o- сн₂- сн₂-
HO
 -CH2-CH2-O
 essed ⊿n
 \mathbb{E}(\mathbf{u}(\mathbf{u}_{\mathbf{u}}^{(k)}(\mathbf{u}_{\mathbf{u}})) = \mathbf{u}_{\mathbf{u}}^{(k)}(\mathbf{u}_{\mathbf{u}}) + \mathbf{u}_{\mathbf{u}}^{(k)}(\mathbf{u}_{\mathbf{u}}) + \mathbf{u}_{\mathbf{u}}^{(k)}(\mathbf{u}_{\mathbf{u}}^{(k)}(\mathbf{u}_{\mathbf{u}})) = 0
 ANSWER 30 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
 1994:33400 HCAPLUS
AN
 120:33400
DN
TТ
 Esters of fatty acids and ethoxylated polyols as thickeners
 Trius Oliva, Antonio; Ponsati, Obiols, Oriol; Bigorra Llosas, Joaquim;
IN
 Prat Queralt, Esther
 Henkel K.-G.a.A., Germany; Pulcra S. A.
PA
 Ger. Offen., 6 pp.
SO
 CODEN: GWXXBX
DT
 Patent
T.A
 German
 ICM C07C069-30
TC.
 ICS C11D003-20
 B01F017-02; B01F017-10; B01F017-14; B01F017-30; B01F017-42; B01F017-28;
ICA
 B01F017-32
CC
 46-4 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO.
 DATE

 DE 1991-4137317 19911113
 DE 4137317
 1 A1
 19930519
PΙ
 WO 9310072
 A1
 19930527
 WO 1992-EP2525
 19921104
 W: BR, JP, US
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE
 EP 1992-922862
 EP 613457
 A1
 19940907
 19921104
 EP 613457
 19960619
 В1
 R: DE, ES, FR, GB, IT
 • Т2
 JP 07501354
 19950209
 JP 1992-508927
 19921104
 ES 2088161.
 ES 1992-922862
 Т3
 19960801
 19921104
 US 5576451
 A.
 19961119
 US 1994-244066
 19940513
PRAI DE 1991-4137317
 19911113
 WO 1992-EP2525
 19921104
 MARPAT 120:33400
OS
AΒ
 The title esters are prepd. and used as thickeners for aq. surfactant
```

fatty acid esters for, with mildness to skin)

(laundry, ethoxylated glycerol fatty

(nonionic, ethoxylated glycerol fatty

75-21-8DP, Oxirane, reaction products with glycerol and

25322-68-3DP, ethers with glycerol esters,

acid esters, prepn. and uses of)

IT

IT

Detergents

Surfactants

glycerides

acid esters for)

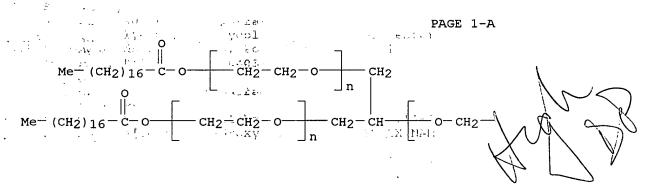
```
solns. An adduct of 110 mol ethylene oxide and 1 mol glycerol
 was prepd. with KOH as the ethoxylation catalyst and esterified
 (0.15 mol) with 0.47 mol tallow fatty acids with MeSO3H as the catalyst.
 The product was used as a thickener for an aq. Na lauryl ether sulfate
 ethoxylate polyol ester thickener surfactant; glycerol
ST
 ethoxylate ester thickener surfactant; sulfate ethoxylate alc soln
 thickener; polyoxyethylene polyol ether ester thickener
IT
 Thickening agents
 (fatty acid esters of ethoxylated polyols, for aq.
 surfactants solns.)
IT
 Surfactants
 (thickening agents for aq. solns. of, fatty acid
 esters of ethoxylated polyols as)
 9004-82-4
 RL: USES (Uses)
 (thickening agents for aq. solns. of, fatty acid
 esters of ethoxylated polyols as)
IT
 31694-55-0D, Polyethylene glycol glycerol ether, esters
 with tallow acids 41080-66-4, Polyethylene glycol
 glycerol ether tristearate 104032-68-0
 RL: USES (Uses)
 (thickening agents, for surfactant solns.)
```

RN 31694-55-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-

propanetriyltris[.omega.-hydroxy- (9CI) (CA INDEX NAME)

$$\mathsf{CH}_2 = \begin{bmatrix} \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 \end{bmatrix}_{\mathsf{D}} \mathsf{O} \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 -$$

RN 41080-66-4 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.'!=1,2,3propanetriyltris[.omega.-[(1-oxooctadecyl)oxy]- (9CI) (CA INDEX NAME)



1960 (1961)

RN 104032-68-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-[(1-oxohexadecyl)oxy]- (9CI) (CA INDEX NAME)

PAGE 1-B

$$-CH_2$$
  $0$   $||$   $C-(CH_2)_{14}-Me$ 

L40 ANSWER 31 OF 42 HCAPLUS COPYRIGHT 2001 ACS

AN 1993:541659 HCAPLUS

DN 119:141659

TI Nonionic liquid detergent composition for automatic cleaning of rubber printing blankets in offset machines

IN Mueller, Walter R.

PA Baldwin-Gegenheimer GmbH, Germany

SO Eur. Pat. Appl., 5 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM C11D017-00

ICS C11D001-74; C11D003-43

CC 46-6 (Surface Active Agents and Detergents)

FAN.CNT 1

KIND APPLICATION NO. PI EP 527315 A2 19930217 EP 1992-110881 19920626 EP 527315 A3 19930922 В1 19951206 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE DE 4126719 19930218 DE 1991-4126719 19910813 A1AT 131207 E 19951215 AT 1992-110881 19920626

PRAI DE 1991-4126719 19910813

11. 1

AB The title compn., giving good removal of ink and paper residues, is a microemulsion contg. 5-40% adduct of 5-10 mol ethylene oxide and 1 mol

```
partial glyceride of caprylic and capric acids, 1-10% 1,2-bis(2-
 oxazolinyl)ethane, and 10-90% Me caprylate, Me caprate, Me laurate, Me
 myristate, and/or coco fatty acid Me esters.
ST
 offset printing rubber blanket cleaner; ethoxylate
 glyceride cleaner offset printing; caprate ester cleaner offset
 printing; caprylate ester cleaner offset printing; laurate methyl cleaner
 offset printing; myristate methyl cleaner offset printing; nonionic
 surfactant cleaner offset printing
IT
 Detergents
 (cleaning compns., liq., nonionic, for rubber printing blankets in
 offset machines)
ΙT
 Fatty acids, esters
 RL: USES (Uses)
 (coco, Me esters, cleaners contg., for offset printing blankets)
 Lithography (offset, cleaners for rubber printing blankets in)
 56-81-5D, Glycerol, esters with capric and caprylic
 acids, ethoxylated 75-21-8D, Ethylene oxide, reaction products
 with partial glycerides of carboxylic acids 110-42-9, Methyl
 caprate 111-11-5, Methyl caprylate 111-82-0, Methyl laurate 124-07-2D, Caprylic acid, glycerides, ethoxylated
 124-10-7, Methyl myristate 334-48-5D, Capric acid, glycerides,
 ethoxylated 25322-68-3D, Polyethylene glycol, ethers with
 partial glycerides of C8-10 fatty acids
 83348-54-3
 RL: USES. (Uses) de of capyallo and capyallo and capyallo and capyallo and capyallo and capyallo and capyallo and capyallo.
 S6-81-5D, Glycerol, esters with our acids, ethoxylated
RL: USES (Uses) (cleaners contg., for offset printing blankets)
ΙT
RN
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
 \langle \phi_{ij} \rangle = \langle \phi
HO-CH_2-CH-CH_2-OH
 The state of the s
 . . prati i jaranin i s
 ANSWER 32 OF 42 HCAPLUS COPYRIGHT 2001 ACS 1993:410832 HCAPLUS 1993:410832 HCAPLUS 1993:410832
DN
 Detergent for cleaning of gas-turbine engine compressors
ΤI
 Litvinov, Aleksej A.; Lastovets, Anatolij N.; Skripka, Natalya I.;
 Zadorin, Mikhail V.; Kobinek, Viktor S.; Sedykh, Aleksandr S.; Novikova,
 Valentina F.; Lopatenko, Svetlana K.; Gorbachevskaya, Lidiya A.
PΑ
 Ki i inzhenerov grazhdanskoj aviatsii im.60-letiya sssr, USSR
 From: Izobreteniya 1992, (30), 117.
 CODEN: URXXAF
DT
 Patent
LΑ
 Russian
 ICM C11D001-72
IC
ICI C11D001-72, C11D003-20
 46-6 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE
 SU 1754774 A1 19920815 SU 1990-4838832 19900612
PΙ
 The title detergent having increased efficiency at elevated temps.
 comprises an aq. soln. contg. 0/2-0.4% ethoxylated C10-16
 synthetic fatty acid monoethan plamides and 2.0-4.0% glycerol.
 cleaner gas turbine engine compressor; fatty amide ethoxylate compressor
 cleaner; glycerol fatty amide ethoxylate detergent
```

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P. 100 1 100

Triphy of the garage L. Fleh Commission Stay

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Amides, compounds
 RL: USES (Uses)
 (C10-16, N-(hydroxyethyl), ethoxylated, detergent
 for cleaning of gas-turbine engine compressors contg. aq.
IT
 Turbines
 (compressors, gas-, detergents for cleaning of)
IT
 Detergents
 (liq., nonionic, ethoxylated fatty acid
 monoethanolamide-glycerol-water mixts., for gas-turbine
 engine compressors)
IT
 Compressors
 (turbine, gas-, detergents for cleaning of)
IT
 25322-68-3D, fatty acid ethanolamide derivs.
 RL: USES (Uses) (detergent for cleaning of gas-turbine engine compressors)
 contg. aq. glycerol and)
 56-81-5, Glycerol, uses
ΙT
 RL: USES (Uses)
 (detergent for cleaning of gas-turbine engine compressors
 contg. ethoxylated fatty acid
 monoethanolamides and)
IT
 56-81-5, Glycerol, uses
 RL: USES (Uses) (detergent for cleaning of gas-turbine engine compressors
 have contgagethoxylated fatty acid
 monoethanolamides and)
 56-81-5 HCAPLUS
RN
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
CN
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s is till
 ANSWER 33 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
 1991:124927 HCAPLUS
AN
DN
 114:124927
 Classification and analysis of surfactant products by simple laboratory
ΤI
 Valea Perez, Angel; Gonzalez Arce, Maria L.
ΑU
 Dpto. Ing. Quim. Med. Ambiente, Esc. Univ. Ing. Tec. Ind., Bilbao, 48012,
CS
 Tec. Lab. (1989), 12(149), 236-45
 · Carlo
SO
 CODEN: TCLBAB; ISSN: 0371-5728
 DT
LΑ
 Spanish
 46-3 (Surface Active Agents and
 CHILL
 Detergents)
 Section cross-reference(s): 80
 Two anal. methods are described for detection of surfactants in mixts.,
 such as those encountered in com. detergent formulations. Ionic and
 nonionic surfactants are identified by colorimetric methods using
 reagents: Ce nitrate, CHCl3/AlCl3, aq. Br, KMnO4, alc. KOH, and acetic
 anhydride/H2SO4. Solvent extn. was used to isolate surfactants from
 formulations and TLC methods were used to sep. ionic and nonionic
 surfactants in mixt.
 colorimetry surfactant detn reagent; chromatog thin layer surfactant mixt;
 ionic nonionic surfactant sepn TLC
ΙT
 Surfactants
 (detn. of, in surfactant mixts., TLC and colorimetry in)
IT
 Chromatography, thin-layer
 (surfactant detn. in mixts. by)
IT
 Spectrochemical analysis
 (colorimetric, surfactant detn. in mixts. by) \frac{s \cdot b^{\alpha}}{s \cdot b^{\alpha}}
 + f
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) 1.

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IT.
 Fatty acids, esters
 RL: ANT (Analyte); ANST (Analytical study)
 (ethoxylated, esters, detn. of, in surfactant mixts., TLC and
 colorimetry in)
 ΙT
 Amines, compounds
 RL: ANT (Analyte); ANST (Analytical study)
 (fatty, ethoxylated, detn. of, in surfactant mixts., TLC and
 colorimetry in)
 ΙT
 RL: ANT (Analyte); ANST (Analytical study)
 (sodium, detn. of, in surfactant mixts., TLC and colorimetry
 Fatty acids, compounds
 IT
 RL: ANT (Analyte); ANST (Analytical study)
(sodium salts, detn. of, in surfactant mixts., TLC and colorimetry in)
 7664-93-9, Sulfuric acid, uses and miscellaneous
 ΙT
 RL: USES (Uses)
 (colorimetric reagent contg. acetic anhydride and, for
 surfactant detn.)
 IT
 67-66-3, Chloroform, uses and miscellaneous
 RL: USES (Uses)
 (colorimetric reagent contg. aluminum chloride and, for
 surfactant detn.)
 IT
 108-24-7
 RL: USES (Uses)
 TI
 (colorimetric) reagent contg. j.aq. sulfuric acid and, for
 surfactant detn.)
 7697-37-2, Nitric acid, uses and miscellaneous
 IT
 RL: USES (Uses)
 7.7
 (colorimetric reagent contg., cerium ammonium nitrate and, for
 surfactant detn.)
 7446-70-0, Aluminum chloride (Alc13), uses and miscellaneous
 IT
 RL: USES (Uses)
 (colorimetric reagent contg., chloroform and, for surfactant
 IT
 15078-94-1, Cerium ammonium nitrate
 RL: USES (Uses)
 (colorimetric reagent contg. nitric acid and, for surfactant
 7722-64-7 7726-95-6, Bromine, uses and miscellaneous
 IT
 RL: USES (Uses)
 . (colorimetric reagent of aq., for surfactant detn.)
 1310-58-3, Potassium hydroxide, uses and miscellaneous
 TT
 RL: USES (Uses)
 (colorimetric reagent of ethanol and, for surfactant detn.)
 IT
 64-17-5, Ethanol, uses and miscellaneous
 RL: USES (Uses) (colorimetric reagent of potassium hydroxide and, for
 surfactant detn.)
 139-96-8, Triethanolamine lauryl sulfate 151-21-3, Sodium laurylsulfate,
 IT
 analysis 1338-39-2D, Sorbitan monolaurate, ethoxylated 1338-41-6,
 Sorbitan monostearate 2386-53-0 7664-38-2D, Phosphoric acid, esters,
 9003-11-6, Ethylene oxide-propylene oxide copolymer
 sodium salts
 9016-45-9, Nonylphenol 12068-03-0, Sodium toluenesulfonate 25155-30-0,
 Sodium dodecylbenzenesulfonate 25322-68-3 26635-93-8
 31566-31-1D, Glycerol monostearate, ethoxylated
 32073-22-6, Sodium cumenesulfonate 55348-40-8 60816-61-7
 132801-48-0
 RL: ANT (Analyte); ANST (Analytical study)
 (detn. of, in surfactant mixts., TLC and colorimetry in)
 IT
 31566-31-1D, Glycerol monostearate, ethoxylated
 RL: ANT (Analyte); ANST (Analytical study)
 (detn. of, in surfactant mixts., TLC and colorimetry in)
 RN
 31566-31-1 HCAPLUS
 Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX
 CN
 NAME)
 -100 \,\mathrm{CeV}
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{\rm HO_2C^-} (CH₂) {\rm 16^-Me}
 CM
 56-81-5
 CRN
 CMF
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 OH
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 ANSWER 34 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 L40
 ΑN
 1991:104848 HCAPLUS
 'DN
 114:104848
 ΤI
 Dry-cleaning paste
 Wu, Zĥengyong; Zhuang, Weiyi
 IN
 Peop. Rep. China
 PA
 SO
 Faming Zhuanli Shenging Gongkai Shuomingshu, 4 pp.
 CODEN: CNXXEV
 DT
 Patent
 LΑ
 Chinese
 IC
 ICM C11D009-02
 ICS C11D009-60; C11D017-00
 CC
 46-6 (Surface Active Agents and
 Detergents)
 FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO. DATE
 PΤ
 CN 1043955
 A
 19900718
 CN 1989-105458
 19881231
 Dry-cleaning pastes contain monoglycerides 40, distd. tallow fatty acids
 AΒ
 20, EtOH 20, polyethylene glycol nonylphenyl ether 6, optical brighteners
 4, and alkanolamines 10%.
 dry cleaning paste; monoglyceride dry cleaning paste; fatty acid dry
 ST
 cleaning paste; alkanolamine dry cleaning paste; polyoxyalkylene dry
 cleaning paste; tallow fatty acid cleaning paste; nonylphenol ethoxylated
 dry cleaning paste
 Polyoxyalkylenes, uses and miscellaneous
 IT
 RL: USES (Uses)
 (in dry cleaning pastes)
 ΙT
 Alcohols, uses and miscellaneous
 RL: USES (Uses)
 (amino, in dry cleaning pastes)
 IT
 Detergents
 (dry-cleaning, pastes, contg. monoglycerides, tall-oil
 fatty acids and ethoxylated nonylphenol)
 Glycerides, uses and miscellaneous
 TT
 RL: USES (Uses)
 (mono-, in dry cleaning pastes)
 IT
 Fatty acids, uses and miscellaneous
 RL: USES (Uses)
 (tallow, in dry cleaning pastes)
 IT
 56-81-5D, 1,2,3-Propanetriol, fatty acid
 monoesters 64-17-5, Ethanol, uses and miscellaneous
 Polyethylene glycol nonylphenyl ether
 . :4: 3
 ×1
 RL: USES (Uses)
 arstal. .
 ta!
 (in dry cleaning pastes)
 رق دِج
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Timothy Saunders EIC-LAW Lib. 18th 308-4139

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Page 52

57-11-4

C18 H36 O2

CRN

CMF

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IT'
 56-81-5D, 1,2,3-Propanetriol, fatty acid
 monoesters
 RL: USES (Uses)
 (in dry cleaning pastes)
RN
 56-81-5 HCAPLUS
CN
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
 OH.
HO-CH_2-CH-CH_2-OH
 ANSWER 35 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 1989:195212 HCAPLUS
AN ·
DN
 110:195212
ΤI
 Cleaner for heavily soiled hands
 Dabrowska, Ewa; Stach, Elzbieta; Marcisiak, Jan
IN
 Jaworskie Zaklady Chemii Gospodarczej "Pollena", Pol.
PA
so
 Pol., 3 pp.
 CODEN: POXXA7
DΤ
 Patent
LA
 Polish
 ICM C11D001-00
IC
 46-6 (Surface Active Agents and
CC
 Detergents)
FAN.CNT 1
 PATENT NO. KIND DATE
 APPLICATION NO. DATE
 PL:133982 B1 19850731 PL 1982-237518 19820715
PT
AB
 The title cleaner contains refined naphtha 18-30, glycerol
 monooleate 1-3, ethoxylated (2-4 mol) lauryl alc. 2-4,
 ethoxylated (6-12 mol) lauryl alc. 10-16, coco diethanolamide
 10-16, blue dye 0.003-0.006, perfume 0.3-0.6, and water 30.394-58.687
 parts. The cleaner is not toxic and removes lubricants, paints, inks,
 soot, etc., without causing drying of skin.
 cleaner gel skin hand; glycerol monooleate cleaner hand; oleate glycerol
ST
 cleaner hand; dodecanol ethoxylate cleaner hand; coco diethanolamide
 cleaner hand
 1441
İŤ
 Detergents
 (cleaning compns., gels, for heavily soiled hands)
 111-42-2D, Diethanolamine, amides with coco fatty acids
ΙT
 9002-92-0, Polyethylene glycol monododecyl ether 25496-72-4,
 Glycerol monooleate
 13.
 RL: USES (Uses)
 (cleaning gel contg., for hands)
IT
 25496-72-4, Glycerol monooleate
 RL: USES (Uses)
 (cleaning gel contg., for hands)
RN
 25496-72-4 HCAPLUS
 9-Octadecenoic acid (9Z)-, monoester with 1,2,3-propanetriol (9CI) (CA
CN
 INDEX NAME)
 . E.O.
 CM
 7320
 CRN 112-80-1
 , 91x ...
 CMF C18 H34 O2
 .. 2-4
 CDES 2:Z
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 . 7a 1
Double bond geometry as shown.
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CRN 56-81-5 CMF C3 H8 O3

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ANSWER 36 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 1988:551957 HCAPLUS
AN
 109:151957
DN
 Amides of ethoxylated carboxylic acids of coconut oils as new group of
ΤI
 surface active agents
CS
 Chemische Fabrik Chem-y G.m.b.H., Emmerich, Fed. Rep. Ger.
 Pollena: Tluszcze, Srodki Piorace, Kosmet. (1987), 31(9-10), 163-70
so
 CODEN: PTSKDF
DT
 Journal
LA
 Polish
CC
 46-3 (Surface Active Agents and
 Detergents)
 Section cross-reference(s): 62
 Akypo-Soft KA 250 BV, a mixt. of glycerol derivs. and amidated
AB
 carboxymethylated poly(oxyethylene) Na salts obtained by amidation,
 ethoxylation, and carboxymethylation of coconut oil, exhibited
 good foam-forming properties and formed stable foam, and caused little
 irritation of eyes and skin. Cosmetic compns. (shampoos, washing gel)
 contg. the above surfactant are given.
 ethoxylated coco amide surfactant; cosmetics ethoxylated coco amide;
ST
 shampoo ethoxylated coco amide
ΙT
 Shampoos
 (ethoxylated and carboxymethylated coconut oil amides for)
IT
 Surfactants
 (anionic, coconut oil amides, ethoxylated and carboxymethylated)
 IT;
 RL: USES (Uses)
 (coco, N-(hydroxyethyl), ethoxylated and carboxymethylated,
 surfactants, properties and uses of)
ÍΤ
 56-81-5D, Glycerol, derivs.
 RL: USES (Uses)
 (mixts. with ethoxylated and carboxymethylated, coconut oil , , ,
 amides, surfactants, properties and uses of)
IT
 55067-88-4D, fatty acid amide derivs. 116898-81-8,
 Akypo-Soft KA 250BV
 RL: TEM (Technical or engineered material use); USES (Uses)
 (surfactants, properties and uses of)
IT
 56-81-5D, Glycerol, derivs.
 RL: USES (Uses)
 (mixts. with ethoxylated and carboxymethylated; coconut oil
 amides, surfactants, properties and uses of)
RN
 56-81-5 HCAPLUS
 7 SEG-10 30
CN
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
 Sheans
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 OH
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 111
HO-CH2-CH-CH2-OH
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 1 05.22
 1) Lat 1,
 ANSWER 37 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 1985:617283 HCAPLUS
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 103:217283
DN
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Timothy Saunders EIC-LAW Lib. 308-4139

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Page 54

174 (4)

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Separation, identification and determination of nonionic surfactants using
 high-performance liquid chromatography
 Koenig, Hans; Ryschka, Roland; Strobel, Werner
AU
 Anal. Lab., Blendax-Werke R. Schneider G.m.b.H. und Co., Mainz, D-6500,
CS
 Fed. Rep. Ger.
 Fresenius' Z. Anal. Chem. (1985), 321(3), 263-7
SO
 CODEN: ZACFAU; ISSN: 0016-1152
DT
 Journal
LA
 German
CC
 46-3 (Surface Active Agents and
 Detergents)
 Section cross-reference(s): 80
 A method is described which allows the sepn., identification, and detn. of
AΒ
 mixts. of nonionic surfactants in a single process. The sepn. of most of
 the ethoxylated nonionics and of all fatty acid alkanolamides can be
 performed by HPLC using reversed-phase silica columns, 90:10 (vol.)
 MeOH-H2O as the liq. phase at .apprx.170 bar with flow rate 1.5 mL/ min,
 and a differential refractometer for detection and quant. detn. The
 detection limits are 2-5 .mu.g/mL, except for the partial esters of
 ethoxylated fatty acids which are about 10 times lower. Ethylene
 oxide-propylene oxide adducts can be sepd. on columns of lower polarity
 with MeOH as the liq. phase.
ST
 nonionic surfactant detn liq chromatog; HPLC detn nonionic surfactant
ĮΤ
 Fatty acids, analysis
 RL: ANST (Analytical study)
 - .. (in nonionic surfactants, sepn. and detn. of, by
 high-performance liq. chromatog.)
 Alcohols, compounds
IT
 RL: USES (Uses);
 RL: USES (Uses); (C12-14, ethoxylated, in nonionic surfactants, sepn. and
5
 detn. of, by high-performance liq. chromatog.)
ΙÏ
 Alcohols, compounds
 RL: USES (Uses)
 (C12-18, ethoxylated, nonionic surfactants, sepn. and detn.
 of mixts. of, by high-performance liq. chromatog.)
 Alcohols, compounds
IT
 RL: USES (Uses)
 (C15-18, ethoxylated, nonionic surfactants, sepn. and detn.
 of mixts. of, by high-performance liq. chromatog.)
 Alcohols, compounds
ΙT
 RL: USES (Uses)
 (C16 and C18-unsatd., ethoxylated, in nonionic surfactants,
 sepn. and detn. of, by high-performance liq. chromatog.),
IT
 Alcohols, compounds
 1 1/11
 RL: USES (Uses) .
 USES (Uses) (C16-18, ethoxylated, nonionic surfactants, sepn. and detn.
 of mixts. of, by high-performance liq. chromatog.)
 Glycerides, compounds
IT
 1 . 1.1 .
 RL: USES (Uses)
 (C16-18 mono-, ethoxylated, in nonionic surfactants
 , sepn. and detn. of, by high-performance liq. chromatog.)
IT
 Amides, compounds
 RL: USES (Uses)
 (fatty, ethoxylated, in nonionic surfactants, sepn. detn. of
 mixts. of, by high-performance liq. chromatog.)
ΙT
 Surfactants
 (nonionic, sepn. and detn. of mixts. of, by high-performance liq.
 chromatog.)
IT
 57-10-3, uses and miscellaneous 57-11-4, uses and miscellaneous
 93-83-4 111-57-9 111-87-5, analysis 112-30-1 112-80-1, analysis 112-92-5 120-40-1 124-07-
 124-07-2, uses and
```

143-07-7, uses miscellaneous 136-26-5 142-54-1 142-58-5 142-78-9 143-28-2 334-48-5 544-31-0 and miscellaneous 544-63-8, uses and 7545-24-6 996-97-4 7545-23-5 9002-92-0 miscellaneous 9004-81-3 9004-95-9 9004-98-2 9004-89-1 9004-94-8 9004-96-0 9004-99-3 9005-64-5 9005-00-9 9005-67**-**8 9016-45-9 9036-19-5 10525-14-1 11111-34-5 12441-09-7D, monoesters with fatty acids

```
18738-25-5 25154-52-3
26635-92-7 27193-28-8
 25168-73-4
 25322-68-3
 26183-52-8
 27193-28-8 27215-38-9 27252-75-1 27306-79-2
 31566-31-1 31587-78-7
 31587-80-1
 31587-81-2
 31799-71-0
 35627-96-4 36653-82-4
 37200-48-9
 42131-42-0 51158-08-8
 51192-09-7 55973-44-9 56863-02-6
 61596-57-4
 95471-18-4 99264-60-5 150372-93-3
 RL: USES (Uses)
 (in nonionic surfactants, sepn. and detn. of, by
 high-performance liq. chromatog.)
 27215-38-9 31566-31-1 51158-08-8
IT
 51192-09-7 55973-44-9 99264-60-5
 150372-93-3
 RL: USES (Uses)
 (in nonionic surfactants, sepn. and detn. of, by
 high-performance liq. chromatog.)
 27215-38-9 HCAPLUS
 Dodecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)
CN
 CM
 CRN
 143-07-7
 CMF C12 H24 O2
HO_2C-(CH_2):10-Me
 งจับเรียกัฐรัฐได้
สหรักราช 27 ครัว
 15,154-50-3 25163-75--
 エフ (50m/28mm8) 図120.3mm30mm*
 25003402-4
 CRN 56-81-5
 CMF C3 H8 O3
 The second secon
 and the bearing and the
HO-CH_2-CH-CH_2-OH
 31566-31-1 HCAPLUS
RN
 Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX
CN
 NAME) gard, undessuer outh lyle of the local
10
 CM
 CRN
 57-11-4
 CMF
 C18 H36 O2
HO_2C^- (CH₂)₁₆-Me
 CM
 CRN
 56-81-5
 CMF
 C3 H8 O3
 OH
HO-CH_2-CH-CH_2-OH
RN '
 51158-08-8 HCAPLUS
 Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, ether with
CN
 1,2,3-propanetriol monooctadecanoate (2:1) (9CI) (CA INDEX NAME)
```

CM 1

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

CCI PMS

HO 
$$\begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n$$
 H

1-1-2

CM 2

CRN 57-11-4

CMF C18 H36 O2

 $HO_2C^-(CH_2)_{16}^-Me$ 

· CM 3

CRN 56-81-5

CMF C3 H8 O3

ОН

 $HO-CH_2-CH-CH_2-OH$ 

RN 51192-09-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, ether with 1,2,3-propanetriol mono-(9Z)-9-octadecenoate (2:1) (9CI) (CA INDEX NAME)

CM 3

CRN 25322-68-3

.CMF (C2 H4\_O) n H2 O

CCI PMS

$$HO - CH_2 - CH_2 - O - n$$

CM 2

CRN 112-80-1

CMF C18 H34 O2

CDES 2:Z

Double bond geometry as shown.

$$HO_2C$$
 (CH<sub>2</sub>) 7 Z (CH<sub>2</sub>) 7 Me

CM 3

CMF C3 H8 O3 OH  $HO-CH_2-CH-CH_2-OH$ RN 55973-44-9 HCAPLUS CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, ether with 1,2,3-propanetriol monohexadecanoate (2:1) (9CI) (CA INDEX NAME) The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon CRN 25322-68-3 CMF (C2 H4 O)n H2 O CCI PMS

но сн<sub>2</sub>-сн<sub>2</sub>-о н

1-31-3

CM<sub>C</sub> 2 43 43 CRN 57-10-3 CMF C16 H32 O2

 $HO_2C^-$  (CH<sub>2</sub>)<sub>14</sub>-Me

CM

CRN 56-81-5 CMF C3 H8 O3

ОН

 $HO-CH_2-CH-CH_2-OH$ 

RN 99264-60-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, ether with 1,2,3-propanetriol monotetradecanoate (2:1) (9CI) (CA INDEX NAME)

CM I

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

CCI PMS

$$HO = \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n$$

CM 2

```
HO_2C^- (CH₂)₁₂-Me
```

CM 3

CRN 56-81-5 CMF C3 H8 O3

RN 150372-93-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[2-hydroxy-3-[(1-oxododecyl)oxy]propyl].omega.-hydroxy- (9CI) (CA INDEX NAME)

HO 
$$CH_2-CH_2-O$$
  $CH_2-CH_2-CH_2-O$   $CH_2-CH_2-O$   $CH_2-CH_2-O$   $CH_2-CH_2-O$ 

CERTIFIED TO

L40 ANSWER 38 OF 42 HCAPLUS COPYRIGHT 2001 ACS

AN 1984:573470 HCAPLUS

DN 101:173470

TI Mixture of salts of phosphate esters of polyoxyethylenated partial glycerides of higher fatty acids

IN Ropuszynski, Stanislaw; Perka, Jerzy; Rutkowska, Krystyna

PA Politechnika Wrocławska, Pol.

SO Pol., 4 pp.

CODEN: POXXA7

DT Patent

LA Polish

IC C07F009-08; B01F017-14

CC 46-3 (Surface Active Agents and

Detergents)

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE
PL 123434 B2 19821030 PL 1981-229336 19810121

CH2O2CR

PΙ

GΙ

CH2O2CR

CHO (CH2CH2O) nPO (OR1) 2

CHO (CH2CH2O) nPO (OR1)

 $CH_{2}O(CH_{2}CH_{2}O)_{n}PO(OR^{1})_{2}$  I

CH2O2CR

IJ

The title compds. I and II (R = residue of lauric, stearic, oleic, or erucic acid; Rl = K, Na, or ethanolamine residue; n = 9-50), useful as surfactants in the textile, cosmetic, and plastic industries, are prepd. by phosphorylation of partial glycerides of the above fatty acids with polyphosphoric acid (III) contg. 82-84% P2O5 and neutralization of the obtained products with inorg. or org. bases. Thus, 258.0 g III (P2O5 content 82.5%) was added over 15 min to 1133.4 g polyoxyethylated partial glycerides of coconut oil obtained by addn. of 1980.5 g ethylene oxide to

```
to 393K and after 2 h the mixt. was cooled and treated (500.0 g) with 0.65
 dm3 3M methanolic KOH. Removal of MeOH by distn. in vacuo gave a mixt. of
 salts having acid no. 11.3 mg KOH/g, P content 5.52%, and pH of 1% aq.
 ST
 phosphorylated ethoxylated glyceride salt surfactant;
 glyceride ethoxylated phosphorylated surfactant
 IT Surfactants
 (phosphorylated eth xylated fatty acid
 mono- and diglycerides, potassium, sodium and ethanolamine
 salts)
 ΙT
 Glycerides, compounds
 RL: USES (Uses)
 (di-, ethoxylated, phosphate esters, potassium, sodium and
 ethanolamine salts, surfactants).

Glycerides, compounds
 RL: USES (Uses)
 (mono-, ethoxylated, phosphate esters, potassium, sodium and
 ethanolamine salts, surfactants)
1 IT
 25322-68-3D, ethers with fatty acid mono- and
 diglycerides, phosphate esters, potassium, sodium and ethanolamine
 salts 92416-01-8 92471-04-0 92471-06-2
 92471-08-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (surfactants)
 IT
 RL: TEM (Technical or engineered material use); USES (Uses)
 RN
 92416-01-8 HCAPLUS
 Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-hydroxy-, ether with
 CN
 1,2,3-propanetriol, monooctadecanoate (2:1), tetrapotassium salt (9CI) (CA
 INDEX NAME)
 Colospian Colos Colos Colos Error
 e. ethan sin.
 Additional to the Case of
 25852-91-9
 CRN
 (C2 H4 O)n H3 O4 P
 CMF
 CCI PMS
 of a second
 de la marchania
 Sec. 20
 PO3H₂
 CH2-CH2-O-
 117 (
 14 80
 i., , ,
 13471
 . USED .
 CRN 57-11-4
 C18 H36 O2;
 CMF
 53.3
 HO_2C^-(CH_2)_{16}^-Me
 - 1
 plan
order
 ti de la la
 of Remarks and a second of
 · apota .
 Jagen Live In
 16 617
 CRN 56-81-5
 CMF C3 H8 O3
 OH-
```

213.8 g partial glycerides and maintained at 343 K. The temp. was raised

 $HO-CH_2-CH-CH_2-OH$ 

```
CN
 Poly(oxy-1,2-ethanediy1), .alpha.-phosphono-.omega.-hydroxy-, ether with
 1,2,3-propanetriol dioctadecanoate (1:1), dipotassium salt (9CI)
 INDEX NAME)
 CM
 1
 CRN
 25852-91-9
 (C2 H4 O)n H3 O4 P
 CMF
 CCI
 PMS
 CH2-CH2-O
 PO3H2
 - Tungagang tiple 27 Tank - For the theorems - Andrews A
 n
 CM
 2
 CRN
 57-11-4
 CMF
 C18 H36 O2
HO_2C^- (CH₂)₁₆-Me
 4. (7.473.4) (7.52108
 were the entropies of the back of the
 thy to several emblack teles
 CM , 3_{\rm coll} , 3_{\rm coll}
 the standard of the
 CRN 56-81-5
 CMF C3 H8 O3
 2 1:1
 OH
HO-CH2-CH-CH2-OH
RN .
 92471-06-2; HCAPLUS
 Ethanol, 2-amino-, compd. with .alpha.-phosphono-.omega.-hydroxypoly(oxy-
 1,2-ethanediyl) ether with 1,2,3-propanetriol monooctadecanoate (2:1),
 (4:1) (9CI) (CA INDEX NAME)
 CM
 141-43-5
 CRN
 CMF
 C2 H7 N O
H_2N - CH_2 - CH_2 - OH
 CM
 2
 92471-05-1
 (C2 H4 O)n (C2 H4 O)n C21 H44 O10 P2
 CCI
 IDS, PMS
 CDES *
 CM
 3
 CRN 25852-91-9
 (C2 H4 O)n H3 O4 P.
 CCI PMS
 Reputa .
```

RN \*

92471-04-0 HCAPLUS

1. .

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PO3H2
 CM
 CRN
 57-11-4
 C18 H36 O2
 CMF
 HO_2C^- (CH₂)₁₆-Me
कुण प्रमान गण प्रशासिक विकास गण प्रमान् अस्ति । १ उपे १ ५
 5
 CM
 CRN 56-81-5
 СЗ Н8 ОЗ
 CMF
 HO-CH_2-CH-CH_2-OH
 RN = 92471+08-42 HCAPLUS
 Ethanol, 2-amino-; compd. with .alpha.-phosphono-.omega.-hydroxypoly(oxy-
 1,2-ethanediyl) ether with 1,2,3-propanetriol dioctadecanoate (2:1) (9CI)
 (CA INDEX NAME)
 CM
 141-43-5
 CRN
 CMF
 C2 H7 N O
 H2N-CH2-CH2-OH
 CM
 CRN
 92471-07-3
 CMF
 (C2 H4 O)n C39 H77 O8 P
 CCI IDS, PMS
 CDES *
 CM
 3
 CRN 25852-91-9
```

CCI PMS

2001 A way of the about the

(C2 H4,O)n H3 O4 P

CM 4

CMF

CRN 57-11-4 CMF C18 H36 O2 1,2,3-12-2-12

a secondary and production of the

1341 (IIII) (St. )

ri crade

```
CM
 CRN 56-81-5
 CMF C3 H8 O3
 OH
HO CH2 CH CH2 OH
L40 ANSWER 39 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 1984:123199 HCAPLUS
DN
 100:123199
 Transparent jellylike cleaning agents
TI
PA
 Shiseido Co., Ltd., Japan
 Jpn. Tokkyo Koho, 5 pp.
so
 CODEN: JAXXAD
DT
 Patent
LΑ
 Japanese
IC
 C11D001-825
CC. 46-6 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO. DATE

 JP 58039198 B4 19830827
 JP 1976-62745 19760529
 Cleaning agents (100 parts) contain higher alc.-ethylene oxide adducts
AB
 3-10, fatty acid diethanolamides 5-10, glycerin diesters or dialkyl
 malates 4-6 parts, and other additives. Thus, coconut oil fatty acid
 acyl-L-glutamic acid monotriethanolamine 30, lauric acid triethanolamine
 [89187-80-4] soap 37, and glycerin 13 g were stirred at 70-80.degree.,
 mixed with a heated mixt. of poly(oxyethylane) reduced lanolin 1, coconut
 fatty acid diethanolamide 7.5, and poly(oxyethylene)lauryl alc. ether
 [9002-92-0] 5 g, stirred at 70-80.degree., mixed with 5.5 g glycerol
 di-2-heptylundecanoate [64647-53-6], stirred .apprx.20 min,
 mixed with a color, a perfume, and water to 100 g, and cooled to prep. a
 transparent jellylike cleaning agent. transparent jellylike cleaning agent; glycerin diester cleaning agent;
ST
 ethoxylated alc; cleaning agent; fatty diethanolamide cleaning agent;
 malate dialkyl cleaning agent
IT
 Soaps ·
 RL: USES (Uses)
 (cleaning agents, contg. ethoxylated alcs. and fatty
 acid diethanolamide and glycerol diesters,
 transparent and jellylike)
IT
 Transparent materials
 (cleaning agents, jellylike, contg. ethoxylated alcs. and
 fatty acid diethanolamides and glycerin
 diesters)
IT
 Gels
 (cleaning agents, transparent, contg. ethoxylated alcs. and
 fatty acid diethanolamides and glycerin
 diesters)
 * dep
 o die ste
 Andrew Server
The Company of the Com
 Alcohols, compounds
IT
 RL: USES (Uses)
 (ethoxylated, cleaning agents contg. fatty
```

(1), 1, 1

1 - (re ) 1

acid diethanolamides and glycerin diesters,

transparent and jellylike)

IT

Detergents

```
(cleaning compns., contg. ethoxylated alcs. and fatty
 acid diethanolamides and glycerin diesters,
 transparent and jellylike)
IT
 120-40-1
 A SHOP ATT.
 an . Julia Britist bei jed (matte
 RL: USES (Uses)
 (cleaning agents, contg. ethoxylated alcs. and dialkyl malates,
 transparent and jellylike)
IT
 63623-64-3 64647-53-6 89187-79-1
 RL: USES (Uses)
 (cleaning agents, contg. ethoxylated alcs. and fatty
 acid diethanolamides, transparent and jellylike)
ΙT
 38732-22-8D, acyl
 RL: USES (Uses)
 (cleaning agents, contg. ethoxylated alcs. and fatty
 acid diethanolamines and glycerin diesters,
 transparent and jellylike)
 111-42-2D, fatty amides
IT
 RL: USES (Uses)
 (cleaning agents, contg. ethoxylated alcs. and
 glycerin diesters, transparent and jellylike)
 9004-98-2
IT
 RL: USES (Uses)
 (cleaning agents, contg. fatty acid diethanolamides
 and dialkyl malate, transparent and jellylike)
 9002-92-0
 RL: USES (Uses)
 (cleaning agents, contg. fatty acid diethanolamides
 and glycerin diesters, transparent and jellylike)
IT
 64647-53-6
 RL: USES (Uses)
 (cleaning agents, contg. ethoxylated alcs. and fatty
 acid diethanolamides, transparent and jellylike)
RN
 64647-53-6 HCAPLUS
 Undecanoic acid, 2-heptyl-, 2-hydroxy-1,3-propanediyl ester (9CI) (CA
CN
 INDEX NAME)
 t di la martina di la companya di la companya di la companya di la companya di la companya di la companya di l
 C = O = CH_2 = CH = CH_2 = O = C = CH = (CH_2)_8 = Me
 (CH₂)₆—Me
Me = (CH_2)_6 - CH - (CH_2)_8 - Me
 ST CONTRACTOR
 ANSWER 40 OF 42 HCAPLUS COPYRIGHT 2001 ACS
L40
AN
 1980:131108 HCAPLUS
DN
 92:131108
 Oxyethylated lipid system containing surface-active compounds
ΤI
 Widmann, Lutz
IN
PA
 Ger. Dem. Rep.
SO
 Ger. (East), 6 pp.
 CODEN: GEXXA8
DT
 Patent
 A61K007-48
 German
LA
IC
CC
 46-4 (Surface Active Agents and
 Detergents)
 Section cross-reference(s): 62, 63
FAN. CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO. DATE
 DD 137784 T
PΙ
 19790926
 DD 1977-201390 19771006
 The addn. of .gtoreq.3% mixt. of 80-95% coconut fatty acid diethanolamides
AB
 and 5-20% glycerol [56-81-5] to plant, animal,
 paraffinic, and/or synthetic oils contg. ethoxylated alcs. (esp.
 alkylphenols) improves the stability of emulsions prepd. with the mixts.,
```

```
useful in the manuf. of cosmetics and pharmaceuticals. Thus, a mixt. of
 ethylhexyl esters of coconut fatty acids 10, paraffin oil 20, neat's-foot
 oil 25, sunflower oil 25, 85:15 coconut fatty acid diethanolamide-glycerol
 mixt. 10, C9H19C6H4(OCH2CH2)4OH 5, and C9H19C6H4(OCH2CH2)8-9OH 2 parts
 dispersed rapidly in water to give stable emulsions.
 emulsifier nonionic oil; amide hydroxyethyl emulsifier; glycerol
ST
 emulsifier oil; ethanolamide emulsifier oil
IT
 Paraffin oils
 Rape oil
 Sunflower oil
 RL: USES (Uses)
 (emulsifiers for)
IT
 Emulsifying agents
 (surfactants-glycerol, for oils)
 Amides, uses and miscellaneous 🔠
 RL: TEM (Technical or engineered material use); USES (Uses)
 (fatty, N,N-bis(hydroxyethyl), emulsifiers, for oils)
ΙT
 (neats-foot, emulsifiers for)
IT
 Oils
 RL: USES (Uses)
 (sesame, emulsifiers for)
IT
 110-27-0 3687-45-4 5333-42-6
 RL: USES (Uses)
 (emulsifiers for)
IT
 56-81-5, uses and miscellaneous, 111-42-2D, amides with coconut
 fatty acids 9004-98-2 9016-45-9 9036-19-5
 RL: TEM (Technical or engineered material use); USES (Uses)
 (emulsifiers, for oils).
 56-81-5, uses and miscellaneous.
IT
 RL: TEM (Technical or engineered material use); USES (Uses)
51
 (emulsifiers, for oils)
 56-81-5 HCAPLUS
RN
 1,2,3-Propanetriol (9CI) (CA INDEX NAME)
ĊN
 , ii. .
 OH
 {\tt HO-CH_2-CH-CH_2-OH}
 ANSWER 41 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 1977:92256 HCAPLUS (1.6)
AN
DN
 86:92256
 Monoglyceride polyoxyalkylene ether sulfates
ΤI
IN
 Nakase, Toshiaki; Hidaka, Toru
PΑ
 Riken Vitamin Oil Co., Ltd., Japan
SO
 Japan. Kokai, 6 pp.
 CODEN: JKXXAF
DT
 Patent
LA
 Japanese
IC
 C07C141-08
 46-3 (Surface Active Agents and
 Detergents)
FAN.CNT 1
 KIND DATE
 APPLICATION NO.
 JP 1975-52521
 19750502
PΙ
 The ether sulfates had good detergency and did not irritate the skin.
AB
 Thus, glycerol monolaurate was treated with 7 mol ethylene oxide
 [75-21-8], sulfated with ClSO3H, and neutralized with aq. NaOH to prep. a
 detergent. Hardened coconut or palm oil fatty acid monoglyceride was also
 used as a starting material.
 monoglyceride ethoxylate sulfate detergent;
ST
 glyceride mono ethoxylate sulfate
```

```
(sulfates of ethoxylated monoglycerides, with skin
 compatibility)
 Glycerides, uses and miscellaneous
IT
 RL: USES (Uses)
 (mono-, alk xylated, sulfates, as detergents with
 skin compatibility)
IT
 75-21-8D, reaction products with fatty acid
 monoglycerides, sulfates, salts 61987-21-1
 RL: USES (Uses)
 (detergents, with skin compatibility)
IT
 61987-21-1
 RL: USES (Uses)
 (detergents, with skin compatibility)
 61987-21-1 HCAPLUS
RN
 Poly(oxy=1;2-ethanediyl), .alpha.,.alpha.'-[1-[((1-oxododecyl)oxy]methyl]-
CN
 1,2-ethanediyl]bis[.omega.-(sulfooxy)-, disodium salt (9CI) (CA INDEX
 CH2-CH2-O-
 -CH-CH_2-O-C-(CH_2)_{10}-Me
 ခ ကိုပါမှင်မျှော်ကျ ကြားသောက ကားအပြေသည်။ က
 · :,
 خالات فأفيط بالحميط بالأرازي الأرجاج الرازيي
 ●2 Na :
 ANSWER 42 OF 42 HCAPLUS COPYRIGHT 2001 ACS
 1976:496124 HCAPLUS
AN
DN
 85:96124
 Non gelling, readily dispersible surfactant
TI
 Ishisato, Sukemasa; Imai, Shoichi
IN
PΑ
 Riken Vitamin Oil Co., Ltd., Japan
 Japan., 4 pp.
SO
 CODEN: JAXXAD
 Patent
DT
LA
 Japanese
IC
 C09K003-00
CC
 46-4 (Surface Active Agents and
 Detergents)
FAN. CNT 1
 PATENT NO.
 KIND DATE
 APPLICATION NO. DATE

 JP 51011076 B4
 19760408
ΡI
 JP 1970-68559
 19700805
AB
 To prepare the surfactant, a molten mixt. of fatty acid monoesters of
 glycerol [56-81-5] 40-70, fatty acid monoesters of
 propylene glycol [57-55-6] 40-70, and hydrophilic surfactant selected from
 fatty acid esters of poly(oxyethylene) sorbitan [12441-09-7] and
 ethoxylated glycerol and metal salts of fatty acids <10
 parts was atomized to give a fine powder. The surfactant swelled and
 dispersed in water at <30.degree. and did not gel at high temps. The
 surfactant was useful in foods, medicines, paints, etc.
ST
 surfactant ethoxylated alc mixt; polyoxyethylene deriv mixt surfactant
IT
 Surfactants
 (mixtures, nongelling, contg. fatty acid monoesters
 of glycerol and propylene glycol)
IT
 1,2,3-Propanetriol, monoesters with fatty acids
 1,2-Propanediol, monoesters with fatty acids
 Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.',.alpha.''-1,2,3-
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Detergents ...

propanetriyltris[.omega.-hydroxy-, esters with fatty
acids
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, ethers with sorbitan esters
Sorbitan, ethoxylated, esters with fatty acids
RL: USES (Uses)
 (surfactant mixtures contg.)

100

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